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Water Quality Instructional Resources Information System (IRIS): A Compilation of Abstracts to Water Quality and Water Resources Materials. Supplement I (1970-80)

Ohio State Univ., Columbus

Prepared for

National Training and Operational
Technology Center, Cincinnati, OH

Nov 79

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National Technical Information Service
NTIS

EPA Information Dissemination Project
1200 Chambers Road - Third Floor
Columbus, Ohio 43212

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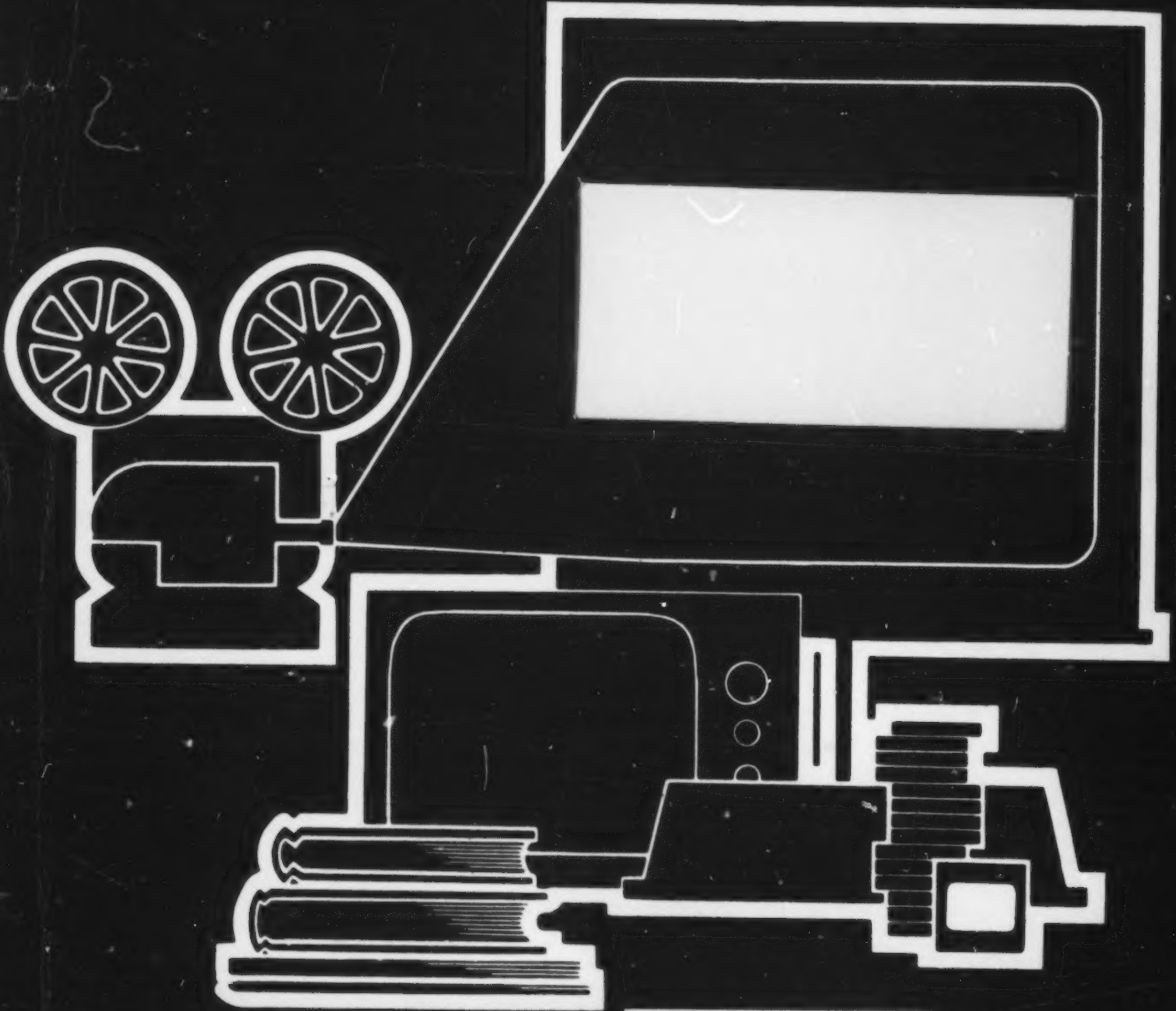
Water

Water Quality Instructional Resources Information System



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16. ABSTRACT

Presented are abstracts and indexes to selected print and non-print materials related to wastewater treatment, water quality, and water resources education and instruction. Entries are included from all levels of governmental sources, private concerns and educational institutions. Each entry includes: title, author, cross references, descriptors, and availability. Also included are procedures illustrating how instructors and program developers in the water quality control field can locate instructional materials to meet their needs. (BT)

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Abstracts, bibliographies, books, data retrieval, education, indexes (documentation), information retrieval, information systems, specialized training, technical reports, visual aids, water pollution, water quality, water resources.	Instructional Materials	05 B 13 B

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WATER QUALITY INSTRUCTIONAL
RESOURCES INFORMATION SYSTEM (IRIS)

A Compilation of Abstracts to Water Quality and Water Resources Materials

Supplement I (1979-80)
November, 1979

Compiled by the staff of the
EPA Information Dissemination Project
SMEAC Information Reference Center
1200 Chambers Road - 3rd Floor
Columbus, Ohio 43212

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Sponsored by the United States Environmental Protection Agency, Office of Water Program Operations, National Training and Operational Technology Center, Cincinnati, Ohio and the SMEAC Information Reference Center, College of Education, The Ohio State University.

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Preface

This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements in their programs.

Supplements to this publication will be issued periodically.

For further information about these materials contact:

EPA Information Dissemination Project
1200 Chambers Road
Columbus, Ohio 43212

Phone: 614-422-6717

I. General Information about Materials in IRIS.

A. What types of materials are included in IRIS?

The EPA Information Dissemination Project (water) acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction.

Materials selected must be available from some source for announcement. When materials are not readily available we attempt to make the materials available through some national information service for easier acquisition. In a few cases the EPA Information Dissemination Project is the source of the materials.

B. How are materials entered into IRIS?

We request that people assist us in locating materials for the system. If you have materials you believe to be useful to others, please send two copies if possible to the:

EPA Information Dissemination Project
1200 Chambers Road
Columbus, Ohio 43212

Materials are reviewed by the project staff. Availability of the material is checked, and the materials are abstracted and indexed. The abstract describes the contents of the material. The index terms (descriptors) are concepts or terms used to describe the contents and the form of the document. (See the Subject Index for a listing of those that have been used.) The index terms are useful for locating materials manually, such as with this compilation, and also by computer.

When items are processed they are entered on the IRIS (water) computer tape. This tape is maintained by the EPA Information Dissemination Project at The Ohio State University and is used for producing tapes for other information systems, publications, and for computer searches conducted at The Ohio State University.

C. How can a user locate materials in IRIS?

1. All materials placed in IRIS (water) Collection.

Materials entered into the IRIS (water) collection can be located in two ways: (1) by manual search of this compilation and similar ones to follow and (2) by computer.

The first compilation contained resumes of selected materials processed for the previous IRIS (water) collection and resumes of selected materials of items added to the IRIS (water) collection. A limited number of copies of the compilation in paper copy and microfiche are available free of charge as long as the supply lasts from the EPA Information Dissemination Project. After the free copies of the compilations are gone, copies will be available for purchase from the EPA Information Dissemination Project.

Quarterly updates of the compilation are available by subscription on a yearly basis beginning November, 1979. Information regarding an annual subscription to IRIS (water) Quarterly Compilations can be obtained by writing to the EPA Information Dissemination Project. A subscription to the quarterly supplements for 1979-80 is $12.00 (within the U.S.). Price to Canada is $14.00. Prices in other countries is $20.00. Separate quarterly supplements are $4.00 each.

The compilation and the quarterly supplements can be scanned and the subject index can be used for manual searches.

Computer tapes of the IRIS (water) collection can also be searched by both batch and on-line computer searches. The IRIS tapes are available for purchase from the SMEAC Information Reference Center. In addition, the IRIS tapes are available for searching through the Bibliographic Retrieval Services, Inc., (BRS). Any search service that currently subscribes to BRS is able to search the IRIS data base by on-line techniques. Individuals or agencies with computer terminals and telephone connection equipment can subscribe to BRS and do their own searches if they desire. Current plans are to update the IRIS tapes every three months.

Information regarding BRS may be obtained by writing or phoning BRS, Corporation Park, Building 702, Scotia, NY 12302, (518) 374-5011.

Plans are being made to mount IRIS tapes with other on-line vendors. Information regarding this service will be announced in a future EPA IRC Bulletin and in mailings from the EPA Information Dissemination Project.

2. Materials placed in the Educational Resources Information System (ERIC)

A number of the materials processed for the IRIS (water) system are entered into the ERIC system and announced in Resources in Education (RIE). Resources in Education (RIE) is published monthly and is available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402

The current price is listed in the most recent issue of RIE. Check if a college or university library close to you has a copy. If they do not contact the EPA Information Dissemination for assistance.

Many libraries subscribe to RIE. Materials announced in RIE can be searched manually each month by scanning RIE or by checking the index terms in the back of each issue. Materials announced in RIE can be searched by computer also. ERIC computer tapes may be purchased outright, but most users of the tapes gain access to them through three major database vendors, Lockheed (Dialog), Systems Development Corporation (Orbit), and Bibliographic Retrieval Services. For the addresses of search services in your state that can search these databases, contact the:

EPA Information Dissemination Project
1200 Chambers Rd., Room 310
Columbus, Ohio 43212

Most of the materials announced in RIE are available on microfiche (microfilm) at over 700 sites throughout the United States and the world. Users can view these materials on site at many locations to identify what they believe will be useful to them at no cost. Microfiche copies (or in most cases Xerox copies) can be ordered through the ERIC Document Reproduction Service. The address and order information is in the back of each issue of RIE. Xerox copies of many items related to water quality and resource education and training can also be ordered through the EPA Information Dissemination Project for 3¢ per page + $1.00 per document.

For information about locations of ERIC microfiche sites in your state, contact the EPA Information Dissemination Project.

A number of journal articles processed for the IRIS (water) system are entered into the ERIC system and announced in Current Index to Journals in Education (CIJE).

Current Index to Journals in Education is published monthly and is available from:

ORYX Press
3930 East Camelback Road
Phoenix, Arizona 85018

Many libraries subscribe to CIJE. Materials announced in CIJE can be searched manually each month by scanning CIJE or by checking the index terms in the back of each issue. Materials announced in CIJE can be searched by computer also. Refer to the previous discussion of RIE concerning computer searches.

Materials announced in CIJE can be located in journals at many university libraries.

Many of the articles can be obtained from University Microfilms. Current prices are $6.00 for articles published before January 1976 and $4.00 for articles published after January 1976. For further information write to:

UMI Article Reprint Department
300 North Zeeb Road
Ann Arbor, Michigan 48106

II. How to Use the Compilation

A. Description of Information in Resumes

Each resume is listed by EW number in numerical order in the resume section. Two samples of resumes are provided to explain the data fields in the resumes. Sample resume #1 is a sample resume of an item not entered in ERIC. Sample resume #2 is a sample resume of an item entered into ERIC; a few additional data elements are in these resumes and are explained.

1. Sample resume of materials not entered into ERIC

    a. IRIS NUMBER: EW 000 480
    b. PUBLICATION DATE: 1976
    c. TITLE: OUR ENVIRONMENT BATTLES WATER POLLUTION
    d. PERSONAL AUTHOR: RENN, C. E.
    e. DESCRIPTOR: AMMONIA; *CHEMICALS; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; NITRATES; *POLLUTION; PHOSPHATES; POST SECONDARY EDUCATION; *RADIOACTIVE WASTES; *THERMAL POLLUTION; *TOXIC SUBSTANCES; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; WATER QUALITY

    f. DESCRIPTIVE NOTE: 32P. ORDER NO. 1592.
    g. ABSTRACT: DISCUSSES THE PROCESSES IN NATURE WHICH TEND TO CREATE CLEAR, COLORLESS, ODOR-FREE WATERS AND HOW THESE PROCESSES CAN BE ADAPTED FOR WASTEWATER TREATMENT AND PURIFICATION SYSTEMS. TOUCHES ON WATER POLLUTION BY RADIOACTIVE WASTES, CHEMICAL TOXINS, NITRATE AND PHOSPHATE ENRICHMENT AND THERMAL POLLUTION.

    h. AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, EDUCATION PRODUCTS DIVISION, CHESTERTOWN, MD 21620 ($1.00)

    a. IRIS NUMBER -- this is the identification number sequentially assigned to materials as they are processed. Gaps in numbers mean that some items have been deleted, are being processed to add new information, or have been delayed in processing for some reason.

    b. PUBLICATION DATE -- date material was published according to information on the material.

    c. TITLE

    d. PERSONAL AUTHOR -- person or persons who wrote, compiled, or edited the material. Up to two personal authors can be listed.

    e. DESCRIPTOR -- subject terms which characterize substantive contents and form of the materials. The major terms are preceded by an asterisk. Terms used to index all resumes in this compilation can be reviewed in the Subject Index.

    f. DESCRIPTIVE NOTE -- various items of information may be contained in this section. For print materials the number of pages is usually listed.

g. ABSTRACT -- some early materials entered into IRIS did not have abstract information. All materials currently being entered into IRIS have an informative abstract that describes the contents of the item.

h. AVAILABILITY -- information in this field indicates where the material can be obtained and the price of the material quoted the last time information was received from the source. Please note: Prices of nearly all materials are subject to changes and may not be accurate at the time a person orders a specific item.

2. Sample resume of material entered into ERIC (Resources in Education)

Item entered into ERIC (Resources in Education) will have a few additional data fields.

IRIS NUMBER: EW002998
a. ERIC NUMBER: ED151236
PUBLICATION DATE: SEP 77
TITLE: CHLORINATION. TRAINING MODULE 2.300.2.77.
INSTITUTION CODE: BBB08399
SPONSORING AGENCY CODE: BBB15379; FGK21436
DESCRIPTOR: *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; SECONDARY EDUCATION; *TEACHING GUIDES; *UNITS OF STUDY; WATER POLLUTION CONTROL; *CHLORINATION; *WASTE WATER TREATMENT; WATER TREATMENT
b. EDRS PRICE: EDRS PRICE MF-$0.83 HC-$3.50 PLUS POSTAGE
DESCRIPTIVE NOTE: 60P. FOR RELATED DOCUMENTS, SEE SE 024 025-046
c. ISSUE: RIEJUL78
ABSTRACT: THIS DOCUMENT IS AN INSTRUCTIONAL MODULE PACKAGE PREPARED IN OBJECTIVE FORM FOR USE BY AN INSTRUCTOR FAMILIAR WITH CHLORINE. THE REASONS FOR CHLORINATION AND SAFE OPERATION AND MAINTENANCE OF GAS CHLORINE, DRY CALCIUM HYPOCHLORITE AND LIQUID SODIUM HYPOCHLORITE CHLORINATION SYSTEMS FOR WATER SUPPLY AND WASTEWATER TREATMENT FACILITIES ARE GIVEN. INCLUDED ARE OBJECTIVES, INSTRUCTOR GUIDES, STUDENT HANDOUTS AND TRANSPARENCY MASTERS. THE MODULE CONSIDERS PURPOSES OF CHLORINATION, PROPERTIES OF CHLORINE, METHODS OF CHLORINATION, SAFETY, MAINTENANCE OF CHLORINATION UNITS AND INTERPRETATION OF TEST RESULTS. (AUTHOR/RH)
d. INSTITUTION NAME: KIRKWOOD COMMUNITY COLL., CEDAR RAPIDS, IOWA.
SPONSORING AGENCY NAME: DEPARTMENT OF LABOR, WASHINGTON, D.C.; IOWA STATE DEPT. OF ENVIRONMENTAL QUALITY, DES MOINES.

a. ERIC NUMBER -- the ED number indicates the document has been processed and entered into Resources in Education. This identification number is the number to use when ordering a document or when requesting information about a document.

b. EDRS PRICE -- if material is available through the ERIC Document Reproduction Service, the price of the material when it was entered into the ERIC system and the form of the material is indicated. "MF" means microfiche; "HC" means Xerox copy. Prices are subject to change. Current prices of microfiche and paper copies are listed in the back of each issue of Resources in Education; consult the latest monthly issue for current prices. Information about ordering items can also be obtained by contacting:

ERIC Document Reproduction Service (EDRS)
P.O. Box 190
Arlington, Virginia 22210

Telephone: 703-841-1212

Items that are available on microfiche (MF) are contained in microfiche collections at over 700 sites where they can be read. For information on the microfiche locations in your state contact the EPA Information Dissemination Project.

c. ISSUE -- this indicates the monthly issue of Resources in Education in which the resume appeared.

d. INSTITUTION NAME -- organization where document originated.

B. How to Locate Desired Materials

Users can identify materials of interest by scanning the resume listings, or using the Subject Index, Author Index, Institution Index, or Title Index.

1. Subject Index

The Subject Index is designed to enable the user to search for information on either a broad subject or a narrow information concern. An EW number is included for each item listed under the subject heading. The EW number refers to the abstract entry in the resume section where complete bibliographic information, an abstract of the item, and availability information can be found.

A user can also coordinate a search by checking EW numbers that appear under two or more subject headings. For example, you could check all the EW numbers under Water Treatment and all the EW numbers under Films. EW numbers included under both subject headings would include information relevant to Water Treatment that were films. EW numbers under wastewater treatment and laboratory techniques would provide a list of materials related to laboratory techniques and to wastewater treatment. Similar techniques could be used to identify other information desired.

Users with ERIC microfiche should check the resume entry. If the document is available on microfiche from the ERIC Document Reproduction Service, the availability will be indicated by "MF" on the resume by "EDRS Price." This means libraries with ERIC microfiche collections should have the document on microfiche.

If you want a document available through the ERIC Document Reproduction Service (EDRS) see the section on ordering documents.

2. Author Index

If you desire to locate a document by the name of the author, you can use the Author Index. EW numbers are provided under the author in the Author Index as in the Subject Index. Some documents do not have a listed author; hence they are not listed in this index.

3. Title Index to the IRIS Compilation (Not included in the compilation)

The Title Index to the IRIS Compilation is a separate document. It is available from the EPA Information Project for $5.00 prepaid or $5.00 plus postage if invoiced. Supplements will be available on an annual basis for $5.00 beginning in January, 1981.

The Title Index contains all titles in the compilation listed in alphabetical order. If you are searching for material and know the title, you can check the title list to determine if the item is in the IRIS data base. Each title includes the IRIS resume number. The number can be found in the resume section of the compilation.

III. Correcting an Existing IRIS Record

The IRIS data base will be updated on a quarterly basis. Corrections will be made to the data base at those times. You can help improve IRIS by sending corrections for items you find to be in error.

We request that you duplicate (copy) the resume from the compilation, mark the information you believe to be wrong (or incomplete), and send the marked resume to:

EPA Information Dissemination Project
1200 Chambers Road, Rm. 310
Columbus, OH 43212

Corrections of errors will occur in the IRIS tapes at the next update after comments are received.

If you have difficulty obtaining materials from the listed source in the AVAILABILITY section of the resume, please let us know. We will contact the souces to verify whether the materials are available, but your assistance will provide corrections between annual availability checks.

If you are the supplier of materials in IRIS, please let us know if you remove a product from your list, modify a product on your list, or change the price of the product.

IV. Requests to Receive Information about IRIS and the IRC Bulletin

Information regarding IRIS, materials in IRIS, and modifications in the system will be announced in the IRC Bulletin. The Bulletin is issued about six times a year as information is available.

If you are not on the mailing list write to the EPA Information Dissemination Project. Limited numbers of some back issues are still available.

If you need information about IRIS you can also phone 614-422-6717 with your questions.

V. Requests for Assistance in Using IRIS

A. Assistance in use of IRIS manuals.

If you need help in using the IRIS manuals phone 614-422-6717 or write to the EPA Information Dissemination Project. Staff are normally available from about 8:30 a.m. to 4:30 p.m. Eastern time to answer your questions.

B. Assistance in accessing IRIS by computer

1. Conducting searches.

   See section VIII.

2. Subscribing to BRS, Inc. for computer searching of IRIS

   Contact: Bibliographic Retrieval Services, Inc.
   Corporation Park, Building 702
   Scotia, New York 12302

   Phone: 518-374-5011

3. Contacting a computer search service (an agency that will conduct a search for you, usually for a fee)

   The EPA Information Dissemination Project maintains a list of agencies that can conduct searches. Most charge a fee, though some are free to qualified users in a limited geographical area.

   Phone or write to obtain information for your area.

VI. How to Locate Other Relevant Educational Materials

A number of people have requested information related to such areas as management, basic skills (reading, mathematics, writing) human relations, contract negotiations, and other topics. The EPA Information Dissemination Project plans to develop some user service products in selected areas in 1980.

Another excellent source of information for many educational concerns is the ERIC System.

ERIC is a national information system designed and developed by the U.S. Office of Education, and now supported and operated by the National Institute of Education (NIE), for providing ready access to descriptions of exemplary programs, research and development efforts, and related information that can be used in developing more effective educational programs.

There are 16 Clearinghouses in the nationwide ERIC network. Each specializes in a different, multi-discipline, educational area. Each searches out pertinent documents.

The ERIC Clearinghouses have responsibility within the network for acquiring the significant educational literature within their particular areas, selecting the highest quality and most relevant material, processing (i.e., cataloging, indexing, abstracting) the selected items for input to the data base, and also for providing information analysis products and various user services based on the data base.

The 16 ERIC Clearinghouses are listed on the next few pages, together with addresses, telephone numbers, and brief scope notes describing the areas they cover. You can contact them for assistance in locating information relevant to their scope notes.

A. ERIC Clearinghouse for Adult, Career, and Vocational Education
Ohio State University
Center for Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
Telephone: (614) 486-3655

Career education, formal and informal at all levels, encompassing attitudes, self-knowledge, decision-making skills, general and occupational knowledge, and specific vocational and occupational skills; adult and continuing education, formal and informal, relating to occupational, family, leisure, citizen, organizational, and retirement roles; vocational and technical education, including new sub-professional fields, industrial arts, and vocational rehabiliation for the handicapped.

B. ERIC Clearinghouse on Counseling and Personnel Services
University of Michigan
School of Education Building, Room 2108
Ann Arbor, Michigan 48109
Telephone: (313) 764-9492

Preparation, practice, and supervision of counselors at all educational levels and in all settings,theoretical development of counseling and guidance, use and results of personnel procedures such as testing, interviewing, disseminating, and analyzing such information, group work and case work; nature of pupil, student, and adult characteristics; personnel workers and their relation to career planning, family consultations, and student orientation activities.

C. ERIC Clearinghouse on Elementary & Early Childhood Education
University of Illinois
College of Education
Urbana, Illinois 61801
Telephone: (217) 333-1386

Prenatal factors, parental behavior; the physical, psychological, social, educational, and cultural development of children from birth through the primary grades; educational theory, research, and practice related to the development of young children.

D. ERIC Clearinghouse on Educational Management
University of Oregon
Eugene, Oregon 97403
Telephone: (503) 686-5043

Leadership, management, and structure of public and private educational organizations; practice and theory of administration; preservice and inservice preparation of administrators, tasks and processes of administration, methods and varieties of organization, organizational change, and social context of the organization.

Sites, buildings, and equipment for education; planning, financing, constructing, renovating, equipping, maintaining, operating, insuring, utilizing, and evaluating educational facilities.

E. ERIC Clearinghouse on Handicapped and Gifted Children
Council for Exceptional Children
1920 Association Drive
Reston, Virginia 22091
Telephone: (703) 620-3660

Aurally handicapped, visually handicapped, mentally handicapped, physically handicapped, emotionally disturbed, speech handicapped, learning disabilities, and the gifted; behavioral, psychomotor, and communication disorders, administration of special education services; preparation and continuing education of professional and paraprofessional personnel; preschool learning and development of the exceptional; general studies on creativity.

F. ERIC Clearinghouse on Higher Education
George Washington University
One Dupont Circle, Suite 630
Washington, DC 20036
Telephone: (202) 296-2597

Various subjects relating to college and university students, college and university conditions and problems, college and university programs; curricular and instructional problems and programs, faculty, institutional research; federal programs, professional education (medical, law, etc.), graduate education, university extension programs, teaching-learning, planning, goverance, finance, evaluation, interinstitutional arrangements, and management of higher educational institutions.

G. ERIC Clearinghouse on Information Resources
Syracuse University
School of Education
Syracuse, New York 13210
Telephone: (315) 423-3640

Management, operation, and use of libraries; the technology to improve their operation and the education, training, and professional activities of librarians and information specialists. Educational techniques involved in microteaching, systems analysis, and programmed instruction employing audiovisual teaching aids and technology, such as television, radio, computers, and cable television, communication satellites, microforms, and public television.

H. ERIC Clearinghouse for Junior Colleges
University of California
Powell Library, Room 96
Los Angeles, California 90024
Telephone: (213) 825-3931

Development, administration, and evaluation of public and private community junior colleges. Junior college students, staff, curricula, programs, libraries, and community services.

I. ERIC Clearinghouse on Languages and Linguistics
Center for Applied Linguistics
1611 North Kent Street
Arlington, Virginia 22209
Telephone: (703) 528-4312

Languages and linguistics. Instructional methodology, psychology of language learning, cultural and intercultural content, application of linguistics, curricular problems and developments, teacher training and qualifications, language sciences, psycholinguistics, theoretical and applied linguistics, language pedagogy, bilingualism, and commonly taught languages including English for speakers of other languages.

J. ERIC Clearinghouse on Reading and Communication Skills
National Council of Teachers of English
1111 Kenyon Road
Urbana, Illinois 61801
Telephone: (217) 328-3870

Reading, English, and communication skills, preschool through college. Educational research and development in reading, writing, speaking, and listening. Identification, diagnosis, and remediation of reading problems. Speech communication--forensics, mass communication, interpersonal and small group interaction, interpretation, rhetorical and communication theory, instruction development, speech sciences, and theater. Preparation of instructional staff and related personnel in these areas.

All aspects of reading behavior with emphasis on physiology, psychology, sociology, and teaching. Instructional materials, curricula, tests and measurement, preparation of reading teachers and specialists, and methodology at all levels. Role of libraries and other agencies in fostering and guiding reading. Diagnostic and remedial services in school and clinical settings.

K. ERIC Clearinghouse on Rural Education and Small Schools
New Mexico State University
Box 3AP
Las Cruces, New Mexico 88003
Telephone: (505) 646-2623

Education of Indian Americans, Mexican Americans, Spanish Americans, and migratory farm workers and their children; outdoor education; economic, cultural, social, or other factors related to educational programs in rural areas and small schools; disadvantaged of rural and small school populations.

L. ERIC Clearinghouse for Science, Mathematics, and Environmental Education
Ohio State University
1200 Chambers Road, Third Floor
Columbus, Ohio 43212
Telephone: (614) 422-6717

All levels of science, mathematics, and environmental education; development of curriculum and instructional materials; media applications; impact of interest, intelligence, values, and concept development upon learning; preservice and inservice teacher education and supervision.

M. ERIC Clearinghouse for Social Studies/Social Science Education
855 Broadway
Boulder, Colorado 80302
Telephone: (303) 492-8434

All levels of social studies and social science; all activities relating to teachers; content of disciplines; applications of learning theory, curriculum theory, child development theory, and instructional theory; research and development programs; special needs of student groups; education as a social science; social studies/social science and the community.

N. ERIC Clearinghouse on Teacher Education
American Association of Colleges for Teacher Education
One Dupont Circle, NW, Suite 616
Washington, DC 20036
Telephone: (202) 293-7280

School personnel at all levels; all issues from selection through preservice and inservice preparation and training to retirement; curricula; educational theory and philosophy; general education not specifically covered by Educational Management Clearinghouse; Title XI NDEA Institutes not covered by subject speciality in other ERIC Clearinghouses; all aspects of physical education.

O. ERIC Clearinghouse on Tests, Measurement, and Evaluation
Educational Testing Service
Princeton, New Jersey 08540
Telephone: (609) 921-9000 ext. 2176

Tests and other measurement devices; evaluation procedures and techniques; application of tests, measurement, or evaluation in educational projects or programs.

P. ERIC Clearinghouse on Urban Education
Box 40
Teachers College, Columbia University
525 W. 120th Street
New York, New York 10027
Telephone: (212) 678-3437

The relationship between urban life and schooling; the effect of urban experiences and environments from birth onward; the academic, intellectual, and social performance of urban children and youth from grade three through college entrance (including the effect of self concept, motivation, and other affective influences); education of urban, Puerto Rican and Asian American populations, and rural and urban black populations; programs and practices which provide learning experiences designed to meet the special needs of diverse populations served by urban schools and which build upon their unique as well as their common characteristics; structural changes in the classroom, school, school system, and community and innovative instructional practices which directly affect urban children and youth; programs, practices, and materials related to economic and ethnic discrimination, segregation, desegregation, and integration in education; issues, programs, practices, and materials related to redressing the curriculum imbalance in the treatment of ethnic minority groups.

Q. Educational Resources Information Center
Central ERIC
National Institute of Education
Washington, DC 20208
Telephone: (202) 254-5555

There are other sources of educational information in many states. Included are information dissemination units in the state departments of education, intermediate education units, and local education units. In many cases, a local school administrator or school librarian can help you locate assistance.

VII. How to Structure a Computer Search of IRIS

This explanation relates to the IRIS data base that can be searched on-line through Bibliographic Retrieval Services, Inc. As IRIS becomes available through other sources, information relevant to those services will be provided.

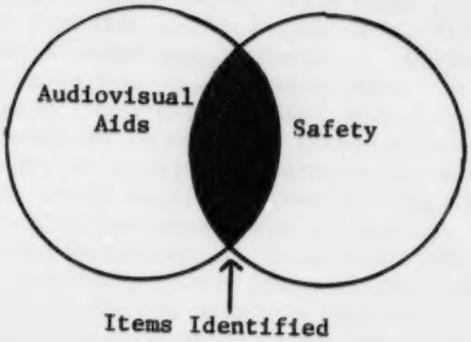
A few notes about the service are important. The following fields are searchable by computer: (1) IRIS Accession Number (EW number), (2) ERIC Accession Number (ED number), (3) Authors, (4) Institution (5) Title, (6) subject index terms, and (7) abstract.

If you submit a search of IRIS through BRS, the program will search for the words you select in three fields unless the searcher requests to limit the search. These fields are: (1) the title field, (2) the subject index field, and (3) the abstract. We recommend you use this feature especially for searches on specific terms. If you find more material than you want by this technique you can narrow the search to items that may have the most information on the topic by limiting the search to the subject index field.

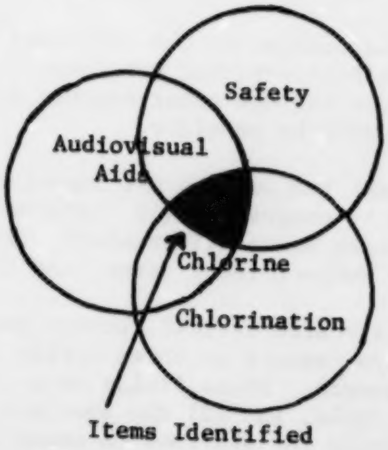
Several sample searches are listed.

A. Sample 1

If you want to locate audiovisual aids that relate to safety you would submit a search with audiovisual aids and safety. Materials that included the terms both audiovisual aids and safety in the title field, the abstract, and the subject index field would be identified by the computer.

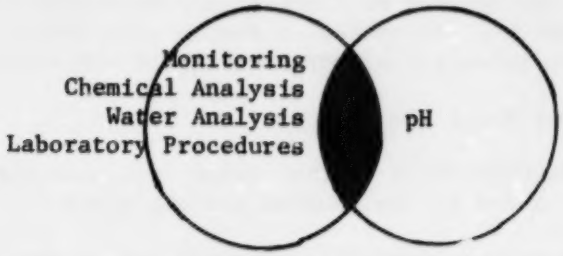


The computer program can tell you the number of items, the title of the items, or print the entire resume of each item. If you were primarily interested in audiovisual aids, safety, and chlorine you would submit a search of these three terms. You might want to include chlorides and chlorination as well as chlorine in the search. This search would identify materials that contained audiovisual aids, safety, and one or more of the words, chlorine, and chlorination.



B. Sample 2

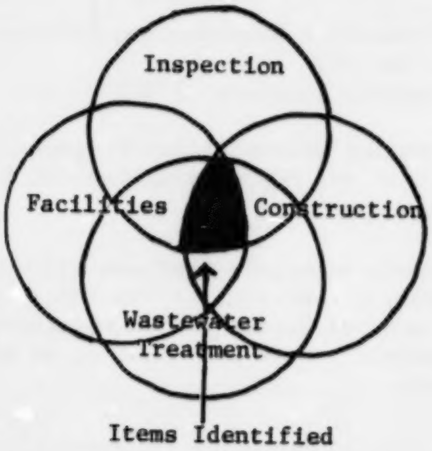
If you want to identify materials related to monitoring, you should include several related terms and the chemical, material, or situation that is being monitored. See the example below.



This search would identify all the items that included any of the terms on the left and pH.

C. Sample 3

If you are interested in materials related to inspection and construction you could conduct a search of these two terms. The search would identify all materials that included both terms. If you were interested in only wastewater treatment facilities you could construct a search as diagrammed.



This search would yield specific materials and demonstrates how a computer search can help you locate materials you want.

D. Use of the Subject Index

The subject index in the back of the compilation can be used to help you decide if you want to do a computer search. If there are relatively few entries, you can check the resumes in the resume section. If there is a large number of entries (perhaps 50 or more) you may want to use a computer search.

As the data base gets larger, you will find more entries for subject index terms and computer searching will offer more advantages.

The subject index can also be used to help you select words to include in a search. Words listed in the subject index are certain to be in the searchable fields. Therefore, selecting these terms to use in structuring a search will increase the probability of locating materials. Some words will appear in the title or abstract that are not included in the subject term field. Such words can be used to check if any materials are in the data base. If, however, you conduct a search with such a word it is usually best to include a synonym that is in the subject index.

VIII. How to Order Materials

The AVAILABILITY field in the resume indicates where materials can be obtained. A few of the sources are explained.

A. A number of audiovisual materials can be obtained on loan from the EPA National Training and Operational Technology Center, Cincinnati, Ohio 45268. They also offer a copy service to reproduce materials at a very reasonable price.

B. Some of the materials are available through the ERIC Document Reproduction Service. MF (microfiche) are 4" x 6" sheets of microfilm; up to 96 pages of text can be reproduced on one sheet. HC (paper copy) is a reproduction of the document in paper form at the original size.

Order forms for these materials can be obtained from:

ERIC Document Reproduction Service
P.O. Box 190
Arlington, Virginia 22210

C. The EPA Information Dissemination Project will provide xerox copies of materials that are not copyrighted for $1.00 per document plus $0.03 per page.

If you can not obtain materials that are listed or have difficulty obtaining materials, please contact the EPA Information Dissemination Project. We can provide assistance in obtaining materials from some sources. If materials become unavailable, we will remove them from the IRIS data base.

IX. USEPA
National Training and Operation Technology Center
Cincinnati, Ohio 45268

To fulfill national educational and training requirements, USEPA has organized the National Training and Operational Technology Center (NTOTC). NTOTC has the responsibility for planning, developing, conducting and evaluating USEPA's water pollution control training and education program. As an instructional resource, its purpose is to help regions, states, local governments and educational institutions to become knowledgeable about USEPA's goals, regulations, strategies, as well as the implications of USEPA programs which affect virtually everyone.

Activities encompass three categories: (1) instruction; (2) course development; and (3) information management.

Instruction--NTOTC offers a variety of training courses in water quality control. Such courses are taught at many locations, but most are presented at the Environmental Research Center in Cincinnati, Ohio. A current project will expand this effort to enable more environmental personnel to receive specialized instruction. Area training centers will soon act as satellites to the NTOTC program, offering similar courses and instructional support. Select universities with broad pollution control curricula will act as area training centers within a region. As a result, more pollution control personnel will have access to needed specialized training.

Since 1971, the NTOTC professional staff of chemists, biologists and engineers has presented nearly 350 courses to more than 8,000 students. Courses are offered throughout the year, and are designed to help participants understand current pollution control techniques and procedures. As USEPA regulations and policies are implemented, based in large part on USEPA research, courses are offered by NTOTC staff to upgrade knowledge and develop specific skills or procedures.

Some courses are conducted at wastewater treatment plants, enabling USEPA to work directly with plant personnel to improve treatment plant effluent. While working on site at treatment plants, staff can diagnose and discuss particular problems and can provide information on design and operation to many technicians within the local region.

Courses currently are offered in five general categories: wastewater treatment technology, treatment facility evaluation and inspection, water quality surveillance and monitoring, water quality analysis, and drinking water quality monitoring.

Students attend courses from all states, and from some foreign countries. The largest percentage represent federal, state, and municipal pollution control agencies. A relatively small number of college and university instructors attend these short courses which are typically one week in length. USEPA encourages more participation by the educational community, so that current skills and knowledge will be transmitted to students to enable them to deal with pollution control problems as they enter environmental occupations. Community college and university instructors may attend courses free of charge by following prescribed application procedures.

Course Development--NTOTC is active in the field of course development. As new educational and training needs are identified, appropriate instructional packages are developed. Almost all such development is based on current research and agency regulations. Materials include instructor guides, student manuals and supporting audiovisual materials. If USEPA's pollution control training programs are to be successfully implemented, college and university staff from various departments must cooperate and integrate these instructional activities within their curriculums; or students will not be adequately prepared, either theoretically or practically.

Information Management--The goal of USEPA's information management system is to support, in a comprehensive and systematic manner, those involved with pollution control education and training. A central location within the NTOTC facility is designed to provide a contact point and to coordinate assistance efforts and has been designated the Instructional Resources Center (IRC).

As the education and training community has become more aware of the types of programs operated by the IRC, requests for information have expanded dramatically. Many requests for assistance from instructors, information specialists, municipal water and wastewater treatment plant trainers, and representatives of government and business have been received.

Through the IRC, NTOTC maintains a central location to inventory, evaluate, catalog and disseminate instructional materials in the areas of water pollution control, water supply, and pesticides. Composed of several different but interrelated activities, it acts as a primary communications link between USEPA and educators at all post-secondary levels.

The IRC includes an audiovisual lending library housing slide/tape presentations, films and videotapes, all available for free, short-term loan. Most subject areas available are water quality-oriented.

Interested persons are invited to Cincinnati to use IRC facilities for reviewing tapes, slides, films, and other materials before deciding about purchases or curriculum development requirements. IRC staff assist visitors by determining the most appropriate ways to use the Center's resources, or in determining educational and training program requirements and available resources. During the past year, universities and state and local governments have been assisted with curriculum design, course materials selection, and audiovisual support efforts.

For more information on NTOTC write to the center at the following address:

National Training and Operational
Technology Center (NTOTC)
26 West St. Clair
Cincinnati, Ohio 45268

Telephone: (513) 684-7501

RESUME SECTION

IRIS ACCESSION NUMBER: EW000169
PUBLICATION DATE: 70

TITLE: DETECTING WATER POLLUTION.

PERSONAL AUTHOR: VALKENBERG, G.V

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENT; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MONITORING; *POLLUTION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 30 MIN., BLACK 8 WHITE

ABSTRACT: GENERAL DESCRIPTION OF PROCEDURES FOR DETERMINING IF WATER IS POLLUTED.

AVAILABILITY: UNIVERSITY OF CALIFORNIA, EXTENSION MEDIA CENTER, 2223 FULTON ST., BERKELEY, CA 94720 (RENTAL:$19.00, PURCHASE: $240.00)

IRIS ACCESSION NUMBER: EW000170

PUBLICATION DATE: 76

TITLE: MAJESTIC POLLUTED HUDSON.

PERSONAL AUTHOR: CBS NEWS.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENT; FILMS; *HUDSON RIVER; *POLLUTION; RIVERS; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: (BS-842) 16MM, 26 MIN., COLOR.

ABSTRACT: TV DOCUMENTATION ON THE DEGRADATION OF THE HUDSON RIVER DUE TO THE POLLUTION OVER THE LAST FEW DECADES.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 15139, PRICE: $15.00 (RENTAL)

IRIS ACCESSION NUMBER: EW000173

TITLE: OIL SPOIL!

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENT; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *OIL SPILLS; *POLLUTION; PETROLEUM INDUSTRY; POST SECONDARY EDUCATION; PUBLIC EDUCATION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 16MM, 17 MIN., COLOR

ABSTRACT: EFFECTS OF AN OIL SPILL ON THE ENVIRONMENT.

AVAILABILITY: ASSOCIATION-STERLING FILMS, P.O. BOX 273, OAKMONT, PA 15139 (RENTAL: $9.00)

INSTITUTION NAME: SIERRA CLUB.

IRIS ACCESSION NUMBER: EW000177
PUBLICATION DATE: 71

TITLE: HOW OUR TOWN SAVED THE RIVER.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; INSTRUCTIONAL FILMS; *POLLUTION; PUBLIC EDUCATION; *PUBLIC PARTICIPATION; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 16MM, 25 MIN., COLOR

ABSTRACT: A PUBLIC SERVICE FILM FOR USE IN COMMUNITIES WHERE PUBLIC EDUCATION CAMPAIGNS ARE NEEDED TO HELP SELL WATER POLLUTION CONTROL FACILITIES. THE STRUGGLE AND METHODS USED TO GAIN CITIZEN SUPPORT FOR THE PROPOSED BOND ISSUE ARE REVIEWED IN SOME DETAIL. THE RESULT, A CLEAN RIVER THAT AGAIN SUPPORTS RECREATION AND INDUSTRIAL USES, IS PLEASINGLY ILLUSTRATED.

AVAILABILITY: PORTLAND CEMENT ASSOCIATION, OLD ORCHARD ROAD, SKOKIE, ILLINOIS 60076

IRIS ACCESSION NUMBER: EW000179

PUBLICATION DATE: 71

TITLE: MAN AND HIS NATURAL ENVIRONMENT: THE CREEK.

DESCRIPTOR: AUDIOVISUAL AIDS; BIOLOGY; *ECOLOGY; *ENVIRONMENT; *FILMS; GEOLOGY; *STREAMS; *WATER QUALITY

DESCRIPTIVE NOTE: 16MM FILM, 26 MIN., COLOR

ABSTRACT: "THE CREEK" SHOWS THE PHYSICAL STRUCTURE AND THE LIFE FORMS OF THE COMPLEX CREEK COMMUNITY, AND DEPICTS THE SOCIAL ACTION INVOLVED IN A COMMUNITY WORKING TOGETHER TO PRESERVE AND RECLAIM ITS CREEKS. THE FIRST PORTION EXAMINES THE HEALTHY LIVING CREEK; THE SECOND PORTTION EXAMINES THE CARELESS USE AND WANTON DESTRUCTION OF THE CREEK AND ITS ENVIRONMENT; THE FINAL PORTION DEALS WITH CORRECTIVE MEASURES TO BE TAKEN TO RECLAIM THOSE CREEKS WHICH ARE PRESENTLY IN POOR CONDITION.

AVAILABILITY: THE FILM COMPANY, 212 WEST FRANKLIN AVE., MINNEAPOLIS, MN 55404, PRICE: ($10.00 RENTAL 8 POSTAGE)

IRIS ACCESSION NUMBER: EW000183

PUBLICATION DATE: 69

TITLE: WHO KILLED LAKE ERIE.

PERSONAL AUTHOR: NBC

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENT; *FILMS; *GREAT LAKES; *LAKE ERIE; *LAKES; POLLUTION; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 51 MIN., COLOR

ABSTRACT: GENERAL INTRODUCTION TO LAKE ERIE'S PROBLEMS. AVAILABILITY: FILMS INC., 1144 WILMETTE AVE., WILMETTE, IL. 60091, PRICE: ($50.00 RENTAL)

IRIS ACCESSION NUMBER: EW000184

PUBLICATION DATE: 70

TITLE: HOW TO MAKE A DIRTY RIVER.

PERSONAL AUTHOR: NBC

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; POLLUTION; *RIVERS; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 16MM, 27 MIN., COLOR

ABSTRACT: GENERAL INTRODUCTION TO WATER POLLUTION.

AVAILABILITY: FILMS INC., 1144 WILMETTE AVE., WILMETTE, IL. 60091 PRICE: ($35.00 RENTAL)

IRIS ACCESSION NUMBER: EW000448

PUBLICATION DATE: 73

TITLE: ACCEPTED PROCEDURE AND PRACTICE IN CROSS CONNECTION CONTROL MANUAL.

DESCRIPTOR: *CROSS CONNECTIONS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; OPERATIONS (WATER); OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *WATER TREATMENT.

ABSTRACT: INSTRUCTIONAL MATERIAL TO TRAIN PERSONNEL FOR CROSS CONNECTION CONTROL PROGRAMS.

AVAILABILITY: GREEN RIVER COMMUNITY COLLEGE, 12401 S.E. 320TH ST., AUBURN, WA 98002 PRICE: $4.00

IRIS ACCESSION NUMBER: EW000453

PUBLICATION DATE: 68

TITLE: PRACTICAL HYDRAULICS FOR THE PUBLIC WORKS ENGINEER.

PERSONAL AUTHOR: MCJUNKIN, F. E.; VESILIND, P.A.

DESCRIPTOR: *ENGINEERING; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *PUBLIC WORKS

DESCRIPTIVE NOTE: 25P. REPRINT FROM PUBLIC WORKS MAGAZINE.

ABSTRACT: BASIC PRINCIPLES OF HYDRAULICS WITH DESCRIPTION OF USE OF FORMULAS AND NOMOGRAPHS FOR THE TECHNICIAN.

AVAILABILITY: BADGER METER INC., 4545 WEST BROWN DEER ROAD, MILWAUKEE, WI 53223 PRICE: FREE

IRIS ACCESSION NUMBER: EW000454
PUBLICATION DATE: 74

TITLE: BASIC WORKBOOK FOR WATER POLLUTION CONTROL PLANT OPERATORS.

DESCRIPTOR: CHLORINATION; FACILITIES; HYDRAULICS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *MANAGEMENT; *OPERATIONS(WASTEWATER); *PRETREATMENT; RECORDS; SAFETY; SAMPLING; *SECONDARY TREATMENT; *SLUDGE; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

ABSTRACT: TRAINING MANUAL FOR BEGINNING WASTEWATER TREATMENT PLANT OPERATORS. FOR USE WITH SHORT COURSE ON IN-PLANT TRAINING PROGRAM.

AVAILABILITY: DEPT. OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION, 47 TRINITY AVENUE SW, ATLANTA, GA 30334

IRIS ACCESSION NUMBER: EW000461

PUBLICATION DATE: 74

TITLE: WORKBOOK: QUESTIONS AND ANSWERS FOR WASTEWATER OPERATORS, 3RD EDITION.

PERSONAL AUTHOR: COVENTRY, F.L.

DESCRIPTOR: ACTIVATED SLUDGE; BIOLOGICAL TREATMENT; *CERTIFICATION; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *OPERATIONS (WASTEWATER); *POST SECONDARY EDUCATION; *STUDY QUESTIONS; STABILIZATION LAGOONS; SAFETY; TRICKLING FILTERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 64P. 520 QUESTIONS WITH ANSWERS

ABSTRACT: THIS IS NOT A TEXTBOOK ON WASTEWATER TREATMENT OPERATIONS. IT IS AHANDBOOK. THE PLANT OPERATOR WHO CAN ANSWER THESE QUESTIONS CORRECTLY WILL BE ABLE TO PASS MANY COMPREHENSIVE CERTIFICATION TESTS.

AVAILABILITY: F.L. COVENTRY, RT. 4, BOX 154 A, ROCKVILLE, IN 47872 ($3.00)

IRIS ACCESSION NUMBER: EW000464

TITLE: GROUND WATER AND WELLS.

DESCRIPTOR: *DRILLING; *GROUNDWATER; *HYDROLOGY; *HYDRAULICS; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *POST SECONDARY EDUCATION; *WATER WELLS

DESCRIPTIVE NOTE: 440P. 400 ILLUS

ABSTRACT: COVERS GROUND WATER OCCURENCE AND MOVEMENT, WELL HYDRAULICS AND WELL DESIGN, DRILLING METHODS, WELL-SCREEN INSTALLATION, WELL MAINTENANCE AND MUCH MORE.

AVAILABILITY: UNIVERSAL OIL PRODUCTS COMPANY, JOHNSON

DIVISION, P O BOX 3118, ST PAUL, MN 55165 ($10.00)

IRIS ACCESSION NUMBER: EW000479

PUBLICATION DATE: 66

TITLE: WATER AND WATER USE TERMINOLOGY.

DESCRIPTOR: *GLOSSARIES; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *WATER TREATMENT; *WATER QUALITY; *VOCABULARY

ABSTRACT: DEFINITIONS FOR USE IN WATER QUALITY CONTROL.

AVAILABILITY: THOMAS PRINTING AND PUBLISHING CO., LTD., 724 DISNOYER STREET, KAUKAUNA, WI 54130, PRICE; $13.00

IRIS ACCESSION NUMBER: EW000480

PUBLICATION DATE: 76

TITLE: OUR ENVIRONMENT BATTLES WATER POLLUTION.

PERSONAL AUTHOR: RENN, C.E

DESCRIPTOR: AMMONIA; *CHEMICALS; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; NITRATES; *POLLUTION; PHOSPHATES; POST SECONDARY EDUCATION; *RADIOACTIVE WASTES; *THERMAL POLLUTION; *TOXIC SUBSTANCES; WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 32P. ORDER NO. 1592

ABSTRACT: DISCUSSES THE PROCESSES IN NATURE WHICH TEND TO CREATE CLEAR, COLORLESS, ODOR-FREE WATERS AND HOW THESE PROCESSES CAN BE ADAPTED FOR WASTEWATER TREATMENT AND PURIFICATION SYSTEMS. TOUCHES ON WATER POLLUTION BY RADIOACTIVE WASTES, CHEMICAL TOXINS, NITRATE AND PHOSPHATE ENRICHMENT AND THERMAL POLLUTION.

AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, EDUCATION PRODUCTS DIVISION, CHESTERTOWN, MD 21620 ($1.00)

IRIS ACCESSION NUMBER: EW000481

PUBLICATION DATE: 76

TITLE: A STUDY OF WATER QUALITY.

PERSONAL AUTHOR: RENN, C.E

DESCRIPTOR: ACIDITY; *GROUNDWATER; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; IRON; *ODOR; OXYGEN; *POLLUTION; *POST SECONDARY EDUCATION; PH; *TASTE; *WATER QUALITY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 46P. ORDER NO. 1532

ABSTRACT: DISCUSSES THE COMPLEX NATURE OF WATER; THE HYDROLOGIC CYCLE; HOW MATERIALS BECOME DISSOLVED IN WATER AND HOW THIS LEADS TO PROBLEMS INVOLVING SCALE FORMATION, CORROSION, AND STAINING; HOW TO DETERMINE WATER QUALITY; AND HOW NATURAL PROCESSES TEND TO RESTORE WATER QUALITY.

AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, EDUCATIONAL PRODUCTS DIVISION, CHESTERTOWN, MD 21620 ($1.00)

IRIS ACCESSION NUMBER: EW000482

PUBLICATION DATE: 76

TITLE: LIMNOLOGY-AN INTRODUCTION TO THE FRESH WATER ENVIRONMENT.

PERSONAL AUTHOR: AMOS, W.H

DESCRIPTOR: AQUATIC ANIMALS; AQUATIC PLANTS; ALGAE; *BIOLOGY; *ECOLOGY; *ENVIRONMENT; EUTROPHICATION; *INSTRUCTIONAL MATERIALS; *LIMNOLOGY; LAKES; OXYGEN; *POST SECONDARY EDUCATION; PHOSPHATES; *POLLUTION; *WATER QUALITY

DESCRIPTIVE NOTE: 38P. ORDER NO. 1593

ABSTRACT: AN OVERVIEW OF BIOLOGICAL, GEOPHYSICAL AND CHEMICAL CONCEPTS AS THEY ARE INVOLVED IN PONDS, LAKES AND OTHER FRESH WATER ENVIRONMENTS. DISCUSSES SEASONAL AND DIURNAL CHANGES IN ECOLOGICALLY SIGNIFICANT FACTORS SUCH AS DISSOLVED OXYGEN, PHOSPHATES AND NATURAL POLLUTANTS. INCLUDES SUGGESTED FIELD AND LABORATORY STUDIES AND EQUIPMENT.

AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, EDUCATION PRODUCTS DIVISION, CHESTERTOWN, MD 21620 ($1.00)

IRIS ACCESSION NUMBER: EW000495

PUBLICATION DATE: 76

TITLE: WATER WORKS OPERATION UNIT I.

DESCRIPTOR: EQUIPMENT; *FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER TREATMENT; *WATER SUPPLY

ABSTRACT: INTRODUCTORY MATERIAL ON WATER TREATMENT PLANT OPERATIONS.

AVAILABILITY: TEXAS A & M UNIVERSITY, TEXAS ENGINEERING EXTENSION SERVICE, FE DRAWER K, COLLEGE STATION, TX 77843

IRIS ACCESSION NUMBER: EW000497

PUBLICATION DATE: 76

TITLE: GROUND WATER SUPPLY UNIT III.

DESCRIPTOR: GEOLOGY; *GROUNDWATER; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; POST SECONDARY EDUCATION; *WATER RESOURCES; *WATER SUPPLY

ABSTRACT: FEATURES OF GROUNDWATER SUPPLIES.

AVAILABILITY: TEXAS A&M UNIVERSITY, TEXAS ENGINEERING EXTENSION SERVICE, FE DRAWER K, COLLEGE STATION, TX 77843.

IRIS ACCESSION NUMBER: EW000498

PUBLICATION DATE: 76

TITLE: SURFACE PRODUCTION UNIT IV.

DESCRIPTOR: *FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER TREATMENT

ABSTRACT: DESCRIPTION OF WATER TREATMENT SYSTEMS.

AVAILABILITY: TEXAS A&M UNIVERSITY, TEXAS ENGINEERING EXTENSION SERVICE, F E DRAWER K, COLLEGE STATION, TX 77843

IRIS ACCESSION NUMBER: EW000499

PUBLICATION DATE: 76

TITLE: WATER DISTRIBUTION UNIT V.
DESCRIPTOR: EQUIPMENT; FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER TREATMENT; WATER DISTRIBUTION

ABSTRACT: PROCEDURES FOR OPERATING WATER DISTRIBUTION.

AVAILABILITY: TEXAS A&M UNIVERSITY, TEXAS ENGINEERING EXTENSION SERVICE, F E DRAWER K, COLLEGE STATION, TX 77843

IRIS ACCESSION NUMBER: EW000501

PUBLICATION DATE: 76

TITLE: WATER SUPPLY SYSTEMS; PIPE AND PIPING.

DESCRIPTOR: *DESIGN; EQUIPMENT; *FACILITIES; *PIPES; *WATER SUPPLY

ABSTRACT: DESIGN OF PIPE SYSTEMS FOR WATER SUPPLY.

AVAILABILITY: BOOK DEPARTMENT, WATER AND WASTES ENGINEERING, 666 FIFTH AVE., NEW YORK, N.Y. 10019 (PRICE: $2.00)

IRIS ACCESSION NUMBER: EW000503

PUBLICATION DATE: 68

TITLE: DESIGN AND SELECTION: VALVES, HYDRANTS, AND FITTINGS.

DESCRIPTOR: *EQUIPMENT; *HYDRANTS; *VALVES; *WATER TREATMENT; *WASTEWATER TREATMENT

ABSTRACT: DESIGN OF VALVES, HYDRANTS AND FITTINGS FOR WATER AND WASTEWATER SYSTEMS.

AVAILABILITY: BOOK DEPARTMENT, WATER AND WASTES ENGINEERING, 666 FIFTH AVE. NEW YORK, NY 10019 (PRICE:$2.00)

IRIS ACCESSION NUMBER: EW000504

PUBLICATION DATE: 72

TITLE: WATER WORKS OPERATORS MANUAL.

DESCRIPTOR: COAGULATION; DISINFECTION; *INSTRUCTIONAL MATERIALS; *OPERATIONS(WATER); POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 245P.

ABSTRACT: THIS MANUAL IS DESIGNED FOR USE TO TRAIN WATERWORKS OPERATORS.
AVAILABILITY: BUREAU OF ENVIRONMENTAL HEALTH, AL DEPARTMENT OF PUBLIC HEALTH, MONTGOMERY, AL 36104 PRICE: $3.00

IRIS ACCESSION NUMBER: EW000535

PUBLICATION DATE: 68

TITLE: SEWAGE WORKS OPERATION UNIT 1.

PERSONAL AUTHOR: ROMHOVDE, I N

DESCRIPTOR: EQUIPMENT; FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; PRIMARY TREATMENT; *SEWERS; SECONDARY TREATMENT; *WASTEWATER TREATMENT; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 63PP

ABSTRACT: INTRODUCTORY TEXT DESIGNED TO COMPLEMENT CLASSROOM INSTRUCTION. CHARACTERISTICS AND METHODS OF COLLECTING WASTEWATERS ARE PRESENTED, FOLLOWED BY A DISCUSSION OF THE MORE COMMON UNIT PROCESSES EMPLOYED IN PRIMARY AND SECONDARY TREATMENT. ADDITIONALLY, SOME CONSIDERATIONS OF ROUTINE TESTING AND SAFETY ARE PRESENTED.

AVAILABILITY: TEXAS A&M UNIVERSITY; TEXAS ENGINEERING EXTENSION SERVICE; F E DRAWER K, COLLEGE STATION, TX 77843

IRIS ACCESSION NUMBER: EW000536
PUBLICATION DATE: 76

TITLE: SEWAGE TREATMENT UNIT II.

DESCRIPTOR: EQUIPMENT; FACILITIES; INSTRUCTIONAL MATERIALS; OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; SEWERS; *WASTEWATER TREATMENT

ABSTRACT: PROCEDURES FOR OPERATING WASTEWATER TREATMENT SYSTEMS.

AVAILABILITY: TEXAS A&M UNIVERSITY, TEXAS ENGINEERING EXTENSION SERVICE, FE DRAWER K, COLLEGE STATION, TX 77843

IRIS ACCESSION NUMBER: EW000537

PUBLICATION DATE: 76

TITLE: SEWERAGE SYSTEMS UNIT III.

DESCRIPTOR: EQUIPMENT; FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *SEWERS; *WASTEWATER TREATMENT

ABSTRACT: PROCEDURES FOR OPERATING WASTEWATER TREATMENT SYSTEMS.

AVAILABILITY: TEXAS A&M UNIVERSITY, TEXAS ENGINEERING EXTENSION SERVICES, F E DRAWER K, COLLEGE STATION, TX 77843

IRIS ACCESSION NUMBER: EW000559

PUBLICATION DATE: 76

TITLE: WATER: A PRIMER.

PERSONAL AUTHOR: LEOPOLD, L.B.

DESCRIPTOR: FLOODS; FLOW MEASUREMENT; SEDIMENT; *SURFACE RUNOFF; SOILS; *WATER STORAGE; *WATER RESOURCES; *WATER SUPPLY

ABSTRACT: INCLUDES DISCUSSION OF PRECIPITATION; SURFACE RUNOFF AND STORAGE; DRAINAGE NETWORKS; FLOW FREQUENCY AND FLOODS; FLOOD PLAINS AND CHANNELS; SEDIMENT LOADS; SOIL, PLANTS AND WATER; WATER SUPPLIES AND WATER USE.

AVAILABILITY: W.H. FREEMAN AND CO., 660 MARKET STREET, SAN FRANCISCO, CA 94104 (PRICE: $13.50)

IRIS ACCESSION NUMBER: EW000560

PUBLICATION DATE: 76

TITLE: ANAEROBIC SLUDGE DIGESTION: OPERATIONS MANUAL.

PERSONAL AUTHOR: ZICKEFOSSE, C.; HAYES, R. B.
DESCRIPTOR: *ANAEROBIC DIGESTION; *INSTRUCTIONAL MATERIALS; *MANUALS; LABORATORY PROCEDURES; MAINTENANCE; *OPERATIONS (WASTEWATER); SAFETY; SAMPLING; *SLUDGE; *SLUDGE TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 198P.

ABSTRACT: COVERS TROUBLESHOOTING, GENERAL OPERATION, SAFETY, START-UP OF UNITS, BASIC THEORY, SAMPLING, AND LABORATORY TESTING. MANUAL DESIGNED FOR OPERATORS. FORMAT ALLOWS PORTION OF MANUAL OF MOST INTEREST TO BE USED DIRECTLY.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402 PRICE: $9.95

IRIS ACCESSION NUMBER: EW000563

PUBLICATION DATE: 76

TITLE: HAVE YOU EVER WONDERED?

DESCRIPTOR: *AUDIOVISUAL AIDS; *ELEMENTARY EDUCATION; *FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); PUBLIC HEALTH; *UTILITIES; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: AUDIO-VISUAL PROGRAM: 35MM SLIDES AND AUDIOCASSETTE.
ABSTRACT: THIS AUDIO-VISUAL PROGRAM PRESENTS THE STORY OF MODERN WATER POLLUTION CONTROL. THREE YOUNG PEOPLE ARE SHOWN HOW A WASTEWATER TREATMENT PLANT OPERATES. THE PROGRAM CONSISTS OF A NARRATIVE, 35MM COLOR SLIDES, AND AN AUDIO CASSETTE.

AVAILABILITY: THE WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE., NW, WASHINGTON, DC 20037 ($35.00)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION. THE CALIFORNIA WATER POLLUTION CONTROL ASSOCIATION, LOS ANGELES SECTION.

IRIS ACCESSION NUMBER: EW000564

PUBLICATION DATE: 72

TITLE: QUALITY OF THE ENVIRONMENT.

PERSONAL AUTHOR: MCCAMY, J. L.

DESCRIPTOR: *ENVIRONMENT; *ENVIRONMENTAL QUALITY; *PLANNING; *POLICIES

DESCRIPTIVE NOTE: 276P. NO. 92048

ABSTRACT: COVERS KEY ENVIRONMENTAL ISSUES AND ANALYZES ENVIRONMENTAL POLICY MAKING.

AVAILABILITY: THE FREE PRESS, 866 THIRD AVE., NEW YORK, N.Y. 10022 PRICE: $8.95

IRIS ACCESSION NUMBER: EW000565

PUBLICATION DATE: 72

TITLE: ECOLOGIC ECONOMIC ANALYSIS FOR REGIONAL DEVELOPMENT.

PERSONAL AUTHOR: ISARD, W.

DESCRIPTOR: *ECONOMICS; ECOLOGY; *ECOSYSTEMS; *ENVIRONMENT; *PLANNING; *REGIONAL DEVELOPMENT

DESCRIPTIVE NOTE: 288P. NO. 91581

ABSTRACT: OFFERS A "SYNTHESIS OF ANALYSES OF TWO SYSTEMS, ECOLOGIC AND ECONOMIC, WITHIN THE WORLD OF ACTUALITY." COVERS BASIC CONCEPTS AND FACTS ABOUT ECOLOGY THAT WILL ASSIST IN POLICY RECOMMENDATIONS. BRINGS THE METHOD AND TOOLS OF ECONOMISTS AND PLANNERS TO THE TASK OF SAVING OUR DETERIORATING ENVIRONMENT.

AVAILABILITY: THE FREE PRESS, 866 THIRD AVE., NEW YORK, NY 10022 PRICE: $15.95

IRIS ACCESSION NUMBER: EW000568

PUBLICATION DATE: 73

TITLE: ENVIRONMENTAL FACTORS IN OPERATIONS TO COMBAT OIL SPILLS.

DESCRIPTOR: ENVIRONMENT; *OIL SPILLS; *POLLUTION; *POLLUTION CONTROL; *WATER POLLUTION CONTROL.

DESCRIPTIVE NOTE: 25P.

ABSTRACT: ENVIRONMENTAL INFLUENCES ON OIL SPILL MOVEMENT AND SPECIFIC COUNTERMEASURES.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 PRICE: $2.50

IRIS ACCESSION NUMBER: EW000570

PUBLICATION DATE: 73

TITLE: ENVIRONMENTAL POLICY AND ADMINISTRATION.

DESCRIPTOR: *ADMINISTRATION; CONSERVATION; *ENVIRONMENT; *NATURAL RESOURCES; *POLICIES; *POLLUTION; POLLUTION CONTROL.

DESCRIPTIVE NOTE: 240P.

ABSTRACT: INTERDISCIPLINARY EXAMINATION OF ENVIRONMENTAL POLICY AND ITS ADMINISTRATION: NATURAL RESOURCES; POLLUTION CONTROL; POLITICS AND PRESSURE GROUPS; CONSERVATION AND ENVIRONMENTAL MOVEMENTS.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 PRICE: $12.50

IRIS ACCESSION NUMBER: EW000571

PUBLICATION DATE: 76

TITLE: AUDIO VISUAL TRAINING PROGRAM FOR WASTEWATER TREATMENT PLANT OPERATORS.

DESCRIPTOR: AUDIOVISUAL AIDS; DISINFECTION; INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *OPERATIONS (WASTEWATER); RECORD KEEPING; SAFETY; SAMPLING; SEWAGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 287P. 35MM SLIDES; 10 CASSETTES, WORKBOOKS, INSTRUCTOR'S MANUAL.

ABSTRACT: INCLUDES UNITS ON CHARACTERISTICS OF SEWAGE, NATURAL BIOLOGICAL TREATMENT PROCESSES, WASTE TREATMENT METHODS, DISINFECTION, TESTS AND SAMPLING, RECORD KEEPING, MAINTENANCE, AND SAFETY.

AVAILABILITY: GREEN RIVER COMMUNITY COLLEGE, 12401 S. E. 320TH ST., AUBURN, WA 98002 PRICE: $5.00, RENTAL. $300.00 PURCHASE

IRIS ACCESSION NUMBER: EW000572

PUBLICATION DATE: 76

TITLE: OPERATION AND MAINTENANCE OF WASTEWATER COLLECTION SYSTEMS.

DESCRIPTOR: ADMINISTRATION; AUDIOVISUAL AIDS; INDIVIDUALIZED INSTRUCTION; INSTRUCTIONAL MATERIALS; INSPECTION; LIFT STATIONS; *MAINTENANCE; OPERATIONS (WASTEWATER); SAFETY; SEWERS; *WASTEWATER COLLECTION; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 143P. 35MM SLIDES AND SLIDE NARRATIVE, INSTRUCTOR'S AND STUDENT'S MANUALS.

ABSTRACT: INCLUDES UNITS ON INSPECTION, TESTING, CLEANING AND MAINTAINING SEWERS, REPAIRS, LIFT STATIONS, SAFETY, ADMINISTRATION AND ORGANIZATION.

AVAILABILITY: GREEN RIVER COMMUNITY COLLEGE, 12401 S.E. 320TH ST, AUBURN, WA 98002 PRICE: $34.00

IRIS ACCESSION NUMBER: EW000578
PUBLICATION DATE: 76

TITLE: MAN IN HIS ENVIRONMENT.

PERSONAL AUTHOR: CROSSMAN, S; CROSSMAN, M.L.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ENVIRONMENT; *ECOLOGY; *FILMS; *INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION; PUBLIC EDUCATION

DESCRIPTIVE NOTE: 16MM; COLOR; 29 MIN

ABSTRACT: AN ESSAY ON THE CHECKS AND BALANCES OF THE NATURAL CYCLE. INCLUDED ARE: FLOW OF ENERGY, PREDATOR-PREY RELATIONSHIPS, CYCLING OF NUTRIENTS, AND NATURAL CONTROL OF ANIMAL POPULATION. DISCUSSES DANGER INHERENT IN MANY PRACTICES AND SUGGESTS ALTERNATIVE WAYS OF RELATING TO THE ENVIRONMENT.

AVAILABILITY: UNIVERSITY OF CALIFORNIA, EXTENSION MEDIA CENTER, 2223 FULTON ST, BERKELEY, CA 94720 (RENTAL:$25.00)

IRIS ACCESSION NUMBER: EW000580

PUBLICATION DATE: 76

TITLE: THE CHOICE IS OURS.

DESCRIPTOR: AUDIOVISUAL AIDS; *ECOLOGY; ENERGY; *FILMS; *NATURAL RESOURCES; POPULATION GROWTH; RECYCLING; *WILDLIFE MANAGEMENT

DESCRIPTIVE NOTE: 16MM, COLOR, 23 MIN.

ABSTRACT: WORLD POPULATION GROWTH, ENERGY NEEDS, RECYCLING, AND NATURAL CONTROL OF PREDATORS ARE CONSIDERED.

AVAILABILITY: UNIVERSITY OF CALIFORNIA, EXTENSION MEDIA CENTER, 2223 FULTON ST., BERKELEY, CA 94720 (RENTAL: $22.00)

IRIS ACCESSION NUMBER: EW000590

PUBLICATION DATE: 76

TITLE: HANDBOOK OF TRICKLING FILTER DESIGN.

DESCRIPTOR: *DESIGN; EQUIPMENT; FACILITIES; *MANUALS; *OPERATIONS (WASTEWATER); *TRICKLING FILTERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 38P. NO. G-3 5TH ED.

ABSTRACT: INCLUDES: GENERAL DESIGN, MEDIA, DRAINAGE AND VENTILATION, DESCRIPTION AND DESIGN DATA, STANDARD RATE FILTERS, AND GENERAL DESIGN FOR HIGH RATE FILTERS.

AVAILABILITY: PUBLIC WORKS MAGAZINE, 200 SOUTH BROAD ST., RIDGEWOOD, NJ 07451 ($2.00)

IRIS ACCESSION NUMBER: EW000591

PUBLICATION DATE: 76

TITLE: PRACTICAL HYDRAULICS FOR THE PUBLIC WORKS ENGINEER.

DESCRIPTOR: *DESIGN; *ENGINEERING; *HYDRAULICS; *PUBLIC WORKS

DESCRIPTIVE NOTE: 26P. NO. G-4

ABSTRACT: THE DESIGN OR ANALYSIS OF ALMOST ANY MAJOR PUBLIC WORKS PROJECT REQUIRES APPLICATION OF HYDRAULIC ENGINEERING PRINCIPLES AND PROCEDURES. SKILLS REGULARLY USED BY ENGINEERS INVOLVED IN HYDRAULIC WORK ARE REVIEWED.

AVAILABILITY: PUBLIC WORKS MAGAZINE, 200 SOUTH BROAD ST., RIDGEWOOD, NJ 07451 ($2.00)

IRIS ACCESSION NUMBER: EW000592

PUBLICATION DATE: 76

TITLE: OPERATION OF WASTEWATER TREATMENT PLANTS.

PERSONAL AUTHOR: CULP, R. L.

DESCRIPTOR: *FACILITIES; *LABORATORY PROCEDURES; *OPERATIONS (WASTEWATER); *SECONDARY TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 28P. NO. G-61

ABSTRACT: COVERS ALL PHASES OF WASTEWATER TREATMENT INCLUDING LABORATORY PROCEDURES, SECONDARY TREATMENT AND ADVANCED TREATMENT MEASURES IN EASY-TO-UNDERSTAND LANGUAGE.

AVAILABILITY: PUBLIC WORKS MAGAZINE, 200 SOUTH BROAD ST., RIDGEWOOD, NJ 07451 ($2.00)

IRIS ACCESSION NUMBER: EW000594

PUBLICATION DATE: 75

TITLE: MANAGEMENT ESSENTIALS FOR PUBLIC WORKS ADMINISTRATORS.

DESCRIPTOR: *ADMINISTRATION; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *MANAGEMENT; *PLANNING; *PUBLIC WORKS MANAGEMENT; *SUPERVISION; UTILITIES

DESCRIPTIVE NOTE: 522P.

ABSTRACT: PRESENTS THE THEORY AND PRACTICE OF PUBLIC WORKS MANAGEMENT. IT FOCUSES ON THE FOUR BASIC ELEMENTS OF MANAGEMENT: PLANNING, ORGANIZING, DIRECTING, AND

CONTROLLING.
AVAILABILITY: AMERICAN PUBLIC WORKS ASSOCIATION, 1313 EAST 60TH STREET, CHICAGO, IL 60637 PRICE: $15.00

IRIS ACCESSION NUMBER: EW000595

PUBLICATION DATE: 74

TITLE: PRACTICES IN DETENTION OF URBAN STORMWATER RUNOFF.

DESCRIPTOR: *FLOODS; *MANAGEMENT; POLLUTION; *SEWERS; *STORMWATER RUNOFF; *WASTEWATER COLLECTION; *WATER POLLUTION CONTROL; *URBAN AREAS.

DESCRIPTIVE NOTE: 231P. (SPECIAL REPORT NO. 43) 42 TABLES, 7 APPENDICES, BIBLIOGRAPHY

ABSTRACT: COVERS SUCH AREAS OF STORMWATER MANAGEMENT AS LOCAL FLOODING, POLLUTION FROM COMBINED SEWER OVERFLOWS, AND PROBLEMS ASSOCIATED WITH THE BENEFICIAL USE OF STORMWATER.

AVAILABILITY: AMERICAN PUBLIC WORKS ASSOCIATION, 1313 EAST 60TH STREET, CHICAGO, IL 60637 PRICE: $12.50

IRIS ACCESSION NUMBER: EW000596

PUBLICATION DATE: 71

TITLE: FEASIBILITY OF UTILITY TUNNELS IN URBAN AREAS.

DESCRIPTOR: *CONSTRUCTION; ECONOMICS; *FACILITIES; *TECHNICAL REPORTS; *URBAN AREAS; *UTILITY TUNNELS.

DESCRIPTIVE NOTE: 167P. (SPECIAL REPORT NO. 39) 13 TABLES, 34 FIGURES, BIBLIOGRAPHY

ABSTRACT: THIS COMPREHENSIVE STUDY OF THE TECHNICAL, LEGAL, AND ECONOMIC ASPECTS CONCLUDES THAT UTILITY TUNNELS ARE JUSTIFIED IN HIGH DENSITY URBAN AREAS.

AVAILABILITY: AMERICAN PUBLIC WORKS ASSOC, 1313 EAST 60TH ST., CHICAGO IL 60637 PRICE: $10.00

IRIS ACCESSION NUMBER: EW000696

PUBLICATION DATE: 68

TITLE: OPERATOR SHORT COURSE SERIES 1; WATER AND WASTEWATER WORKBOOK.

PERSONAL AUTHOR: CHANIN

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WASTEWATER TREATMENT; *WATER TREATMENT

ABSTRACT: WORKBOOK TO BE USED IN BASIC WATER AND WASTEWATER OPERATOR TRAINING COURSES.
AVAILABILITY: BOOK DEPARTMENT, WATER AND WASTES ENGINEERING, 666 FIFTH AVE., NEW YORK, N.Y. 10019, PRICE: $4.50 IN SET WITH EW000697

IRIS ACCESSION NUMBER: EW000697

PUBLICATION DATE: 68

TITLE: OPERATOR SHORT COURSE: WATER AND WASTEWATER WORKBOOK SERIES 2.

PERSONAL AUTHOR: CHANIN.

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *WATER TREATMENT; *WASTEWATER TREATMENT

ABSTRACT: WORKBOOK TO BE USED IN BASIC WATER AND WASTEWATER OPERATOR TRAINING COURSES.

AVAILABILITY: BOOK DEPARTMENT, WATER AND WASTES ENGINEERING, 666 FIFTH AVE., NEW YORK, NY 10019 PRICE: $4.50 IN SET WITH EW 000696

IRIS ACCESSION NUMBER: EW000699

PUBLICATION DATE: 76

TITLE: LABORATORY PROCEDURES FOR OPERATORS OF WATER POLLUTION CONTROL PLANTS.

PERSONAL AUTHOR: NAGANO

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *LABORATORY TECHNIQUES; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

ABSTRACT: PROCEDURES FOR CONDUCTING THE MAJOR TESTS FOR OPERATING A WASTEWATER TREATMENT PLANT.

AVAILABILITY: POLLUTION CONTROL ASSOC. 18 NORTH MENTOR AVENUE, PASADENA, CA 91106, PRICE: $9.00

IRIS ACCESSION NUMBER: EW000703

PUBLICATION DATE: 70

TITLE: MATHEMATICS FOR WASTEWATER TREATMENT PLANT OPERATORS-STUDY AID WORKBOOK.

DESCRIPTOR: *ARITHMETIC; *CERTIFICATION; *GEOMETRY; INDIVIDUALIZED INSTRUCTION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; *WASTEWATER TREATMENT.

DESCRIPTIVE NOTE: 200P.

ABSTRACT: DESIGNED AS HOME STUDY AID. EMPHASIS ON WORK PROBLEMS WITH DETAILED EXPLANATIONS OF SOLUTIONS. SPECIAL SECTION DEVOTED TO GEOMETRY (UNITS, VOLUMES, AREAS, EQUIVALENTS). COVERS ARITHMETIC OPERATIONSAND STATISTICS.

AVAILABILITY: POLLUTION CONTROL ASSOC., 18 NORTH MENTOR AVENUE, PASADENA, CALIFORNIA 91106 PRICE: $9.00

IRIS ACCESSION NUMBER: EW000735

PUBLICATION DATE: 63

TITLE: CLEAN CLEAR WATER.

DESCRIPTOR: AUDIOVISUAL AIDS; *DIATOMITE FILTRATION; EQUIPMENT; FILMS; *FILTRATION; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 16MM, 19MIN., COLOR

ABSTRACT: COVERS ALL MAJOR ASPECTS OF DIATOMITE FILTRATION MEDIA, EQUIPMENT AND OPERATION.

AVAILABILITY: JOHNS-MANVILLE, GREENWOOD PLAZA, DENVER, CO 80217

IRIS ACCESSION NUMBER: EW000774

PUBLICATION DATE: 71

TITLE: ONE THOUSAND YEARS FROM ROME.

PERSONAL AUTHOR: HERSEY.

DESCRIPTOR: AUDIOVISUAL AIDS; *HISTORY; *INSTRUCTIONAL MATERIALS; *WATER METERS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 16MM, 22 MIN., COLOR.

ABSTRACT: REVIEW OF THE METERING OF WATER DOWN THROUGH THE AGES.

AVAILABILITY: HERSEY-PRODUCTS, INC., 1615 FRANKLIN TURNPIKE, RIDGEWOOD, NJ, PRICE: FREE LOAN.

IRIS ACCESSION NUMBER: EW000775

PUBLICATION DATE: 76

TITLE: OUR WEALTH OF WATERS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *NATURAL RESOURCES; *WATER QUALTIY; *WATER RESOURCES

DESCRIPTIVE NOTE: 16MM., 27 MIN., COLOR

ABSTRACT: MAN'S RICH RESOURCES OF WATER.

AVAILABILITY: FILM LIBRARY, TENNESSEE GAME AND FISH COMMISSION, P.O. BOX 40747, ELLINGTON AGRICULTURAL CENTER, NASHVILLE, TN 37203, PRICE: FREE ON LOAN

IRIS ACCESSION NUMBER: EW000788

PUBLICATION DATE: 65

TITLE: SEWER CONSTRUCTION.

DESCRIPTOR: AUDIOVISUAL AIDS; *CONSTRUCTION; ENGINEERING; *FACILITIES; FILMS; *INSTRUCTIONAL FILMS; *POST SECONDARY EDUCATION; *SEWERS; *WASTE DISPOSAL; *WASTEWATER COLLECTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 16MM, 18 MIN., COLOR

ABSTRACT: ILLUSTRATES PROPER PROCEDURES THROUGH EVERY PHASE OF A SEWER PROJECT, FROM STAKING BY THE ENGINEER THROUGH FINAL COMPACTION OF BACKFILL. MANY ALTERNATE METHODS OF CONSTRUCTION ARE SHOWN WITH CONCRETE PIPE AND SEVERAL TYPES OF CONCRETE UNITS FOR MANHOLES. INCLUDES VARIOUS BEDDING METHODS, AND THE USE OF CONCRETE PIPE IN SIZES FROM 8-TO 72 INCH DIAMETER.

AVAILABILITY: PORTLAND CEMENT ASSOCIATION, OLD ORCHARD ROAD, SKOKIE, ILLINOIS 60076 PRICE: $340.00

IRIS ACCESSION NUMBER: EW000845

PUBLICATION DATE: 73

TITLE: BIOCHEMICAL ECOLOGY OF WATER POLLUTION.

PERSONAL AUTHOR: DUGAN, P.R

DESCRIPTOR: *BIOCHEMISTRY; *BIOLOGY; *ECOLOGY; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *POLLUTION; *WATER POLLUTION CONTROL

ABSTRACT: BIOCHEMICAL INTERACTIONS IN WATER POLLUTION.

AVAILABILITY: PLENUM PUBLISHING CORP., 227 WEST 17TH ST., NEW YORK, NY 10011 (PAPERBACK: $5.95, HARDBACK: $19.50)

IRIS ACCESSION NUMBER: EW000850

PUBLICATION DATE: 72

TITLE: USE OF SPECTRONIC 20 SPECTROPHOTOMETER.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *LABORATORY EQUIPMENT; *POST SECONDARY EDUCATION; *SLIDES; *SPECTROPHOTOMETERS; VISUAL AIDS

DESCRIPTIVE NOTE: XT-51, 10 MIN. TAPE, 35 SLIDES, SCRIPT

ABSTRACT: THE STEPWISE USE OF THE SPECTROPHOTOMETER, INCLUDING WARM-UP PROCEDURES, ADJUSTMENTS PRIOR TO USE, MAKING MEASUREMENTS AND CHANGING THE PHOTO TUBE, IS PRESENTED.

AVAILABILITY: U.S. EPA, NATIONAL TRAINING AND OPERATIONAL TECHNOLOGY CENTER, 26 W ST. CLAIR, CINCINATTI, OH 45268

IRIS ACCESSION NUMBER: EW000860

PUBLICATION DATE: 77

TITLE: HYDRAULIC HANDBOOK.

DESCRIPTOR: *HYDRAULICS; *MANUALS; *PIPES; *PUMPS

ABSTRACT: TECHNICAL REFERENCE BOOK PREPARED BY FZINBANKS MORSE PUMP DIVISION OF COLT INDUSTRIES. CONTAINS BASIC PUMP APPLICATION DATA AND TECHICAL INFORMATION FOR APPLICATION OF PUMPS TO SYSTEMS.

AVAILABILITY: COLT INDUSTRIES, 3601 KANSAS AVENUE, KANSAS CITY, KANSAS 66110 PRICE: $8.00

IRIS ACCESSION NUMBER: EW000863

PUBLICATION DATE: 77

TITLE: INSTRUMENTAL ANALYSIS FOR WATER POLLUTION CONTROL.

PERSONAL AUTHOR: MANCY, K.H

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; LABORATORY TECHNIQUES; *LABORATORY PROCEDURES; MEASUREMENT; *MONITORING; POST SECONDARY EDUCATION; SCIENCE EDUCATION; *SAMPLING; *WATER POLLUTION CONTROL

ABSTRACT: APPLICATION OF INSTRUMENTATION, INCLUDING AUTOMATIC AND REMOTE MEASUREMENT SYSTEMS FOR USE BY PRACTICIONERS IN THE WATER POLLUTION CONTROL FIELD, GRADUATE OR UNDERGRADUATE STUDENTS. DEALS WITH INSTRUMENTAL AND AUTOMATED MEASUREMENTS AND THEIR INTERPRETATION. USER DOES NOT HAVE TO HAVE A CHEMICAL BACKGROUND.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI 48106 PRICE: $20.00

IRIS ACCESSION NUMBER: EW000864

PUBLICATION DATE: 77

TITLE: ION EXCHANGERS: PROPERTIES AND APPLICATIONS.

PERSONAL AUTHOR: DORFNER, F

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *EQUIPMENT; INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *ION EXCHANGERS; *POST SECONDARY EDUCATION; SCIENCE EDUCATION

ABSTRACT: PRACTICAL FOR USE IN BULK PROCESSING OF INDUSTRIAL WASTES OR RAW MATERIALS. EMPHASIZES PURIFICATION PROCESSES, ION EXCHANGER TYPES, SYSTEMS, METHODS, APPLICATIONS, MEDIA AND TREATMENT. USEFUL TO THOSE IN CHEMICAL INDUSTRIES, METALS REFINING, AND FOOD INDUSTRIES. DEALS WITH ION EXCHANGERS AS PREPARATIVE AGENTS IN INDUSTRY, ANALYTICAL CHEMISTRY, PHARMACY AND MEDICINE.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI 48106 PRICE: $22.50

IRIS ACCESSION NUMBER: EW000875

PUBLICATION DATE: 69

TITLE: MANUAL ON WATER.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *CHEMICAL TREATMENT; *CHEMICAL PROPERTIES; *INDUSTRY; *PLANNING; SAMPLING; *WATER; *WASTEWATER; *WATER RESOURCES

DESCRIPTIVE NOTE: 362P. STP 442 3RD ED

ABSTRACT: OFFERS INFORMATION ON THE INFLUENCE OF WATER ON INDUSTRIES IN WHICH IT IS USED EITHER AS A RAW MATERIAL OR IN CONJUNCTION WITH MANUFACTURING PROCESSES. SERVES AS A GUIDE TO THE NATURE OF WATER PLANNING REQUIRED AT THE SUPERVISORY AND INVESTMENT LEVELS. COMBINED WITH GENERAL DISCUSSION OF THE PROBLEMS ARISING FROM INDUSTRIAL USE OF WATER ARE DETAILS OF SPECIFIC CONTROL PROCEDURES AND INSTRUCTIONS FOR SUCH CRITICAL OPERATIONS AS SAMPLING WATER UNDER VARIOUS CONDITIONS AND IN THE SEVERAL FORMS IN WHICH IT IS USED.

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE STREET, PHILADELPHIA, PA 19103 PRICE: $16.50

IRIS ACCESSION NUMBER: EW000877

PUBLICATION DATE: 69

TITLE: MICROORGANIC MATTER IN WATER.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; BIOLOGICAL TREATMENT; BIOCHEMICAL OXYGEN DEMAND; CHEMICAL ANALYSIS; *INDUSTRY; *LABORATORY PROCEDURES; *MICROBIOLOGY; *ORGANIC POLLUTION; POLLUTION; *WATER; *WASTEWATER

DESCRIPTIVE NOTE: 124P. STP 448

ABSTRACT: DEVOTED CHIEFLY TO A DISCUSSION OF ORGANIC CONTAMINANTS. INCLUDES: ROLE OF MICROORGANISMS AND BIOLOGICAL MANIFESTATIONS; PESTICIDES; DEVELOPMENT OF CONCENTRATION TECHNIQUES TO BRING CONTAMINANTS UP TO MINIMUM DETECTABLE ANALYTICAL LEVELS; AND CHROMATOGRAPHIC AND SPECTROGRAPHIC TECHNIQUES.

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE STREET, PHILADELPHIA, PA 19103 PRICE: $9.25

IRIS ACCESSION NUMBER: EW000881

PUBLICATION DATE: 76

TITLE: SEWAGE TREATMENT: BASIC PRINCIPLES AND TRENDS.

PERSONAL AUTHOR: BOLTON, R.L.; KLEIN, L

DESCRIPTOR: CHEMISTRY; *FACILITIES; FLOW MEASUREMENT; *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SEWERS; SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

ABSTRACT: USEFUL FEATURES OF THE BOOK ARE CHEMISTRY OF THE SUBJECT, FLOW MEASUREMENTS AND EXAMPLES OF PHYSICAL/CHEMICAL CALCULATIONS. THIS EDITION REFLECTS RECENT TECHNOLOGICAL ADVANCES IN HANDLING SEWAGE AND SLUDGE DISPOSAL AND INDUSTRIAL WASTES. THIS BOOK IS PARTICULARLY USEFUL TO SANITARY ENGINEERS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI 48106 PRICE: $16.50

IRIS ACCESSION NUMBER: EW000895

PUBLICATION DATE: 70

TITLE: WATER POLLUTION CONTROL.

PERSONAL AUTHOR: ECKENFELDER, W. W.; FORD, D. I.

DESCRIPTOR: *ENGINEERING; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; POLLUTION; *WATER TREATMENT; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *WATER QUALITY

ABSTRACT: PROCEDURES TO BE USED IN SOLVING WATER POLLUTION PROBLEMS. WRITTEN FOR THE ENGINEER AND SCIENTIST.

AVAILABILITY: THE PEMBERTON PRESS, C/O JENKINS PUBLISHING CO., P O BOX 2085, AUSTIN, TEXAS 78767 PRICE: $12.50

IRIS ACCESSION NUMBER: EW000925

PUBLICATION DATE: 76

TITLE: ACIDS.

PERSONAL AUTHOR: DISRAELI, R.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ACIDS; *CHEMISTRY; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; SCIENCE EDUCATION

DESCRIPTIVE NOTE: (DC-108) 16MM, 5 MIN., COLOR.

ABSTRACT: BASIC INTRODUCTION TO CONCEPT OF ACIDS.
AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVENUE, OAKMONT, PA 15139 PRICE: $5.00 (RENTAL BLACK AND WHITE), $6.50 (RENTAL, COLOR)

IRIS ACCESSION NUMBER: EW000926

PUBLICATION DATE: 76

TITLE: BUNSEN BURNER.

PERSONAL AUTHOR: DISRAELI, R.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BUNSEN BURNERS; FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORTORY EQUIPMENT; *LABORATORY SKILLS; POST SECONDARY EDUCATION; *SCIENCE EQUIPMENT

DESCRIPTIVE NOTE: (DC-102) 16MM, 7 MIN., COLOR.

ABSTRACT: INTRODUCTION TO USE OF BUNSEN BURNER.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 151398 PRICE:$5.00 (RENTAL BLACK & WHITE), $6.00 (RENTAL COLOR)

IRIS ACCESSION NUMBER: EW000927

PUBLICATION DATE: 76

TITLE: FILTRATION.

PERSONAL AUTHOR: DISRAELI, R.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILTRATION; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY SKILLS; *LABORATORY PROCEDURES; POST SECONDARY EDUCATION.

DESCRIPTIVE NOTE: DC-107 16MM, 7 MIN., COLOR.

ABSTRACT: INTRODUCTION TO LABORATORY FILTRATION.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE., OAKMONT, PA 15139 PRICE: $5.00 (RENTAL, BLACK AND WHITE), $6.50 (RENTAL, COLOR)

IRIS ACCESSION NUMBER: EW000928

PUBLICATION DATE: 76

TITLE: GLASS TUBING.

PERSONAL AUTHOR: DISRAELI R.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; FILMS; *GLASS TUBING; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY SKILLS; POST SECONDARY EDUCATION; SCIENCE

EQUIPMENT
DESCRIPTIVE NOTE: (DC-103) 16MM, 9 MIN., COLOR.

ABSTRACT: INTRODUCTION TO USE OF GLASS TUBING IN THE CHEMISTRY LABORATORY.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 15139, PRICE: $5.00 (RENTAL, BLACK AND WHITE), $6.50 (RENTAL, COLOR)

IRIS ACCESSION NUMBER: EW000929

PUBLICATION DATE: 76

TITLE: INTRODUCTION TO THE CHEMISTRY LABORATORY.

PERSONAL AUTHOR: DISRAELI R.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (DC-101) 16MM, 7 MIN., COLOR.

ABSTRACT: INTRODUCTION TO LABORATORY PROCEDURES.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 15139 PRICE: $5.00 (RENTAL, BLACK AND WHITE), $6.50 (RENTAL, COLOR)

IRIS ACCESSION NUMBER: EW000930

PUBLICATION DATE: 76

TITLE: REAGENT BOTTLE.

PERSONAL AUTHOR: DISRAELI.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *LABORATORY SKILLS; *LABORATORY EQUIPMENT; POST SECONDARY EDUCATION; *REAGENT BOTTLES; SCIENCE EQUIPMENT

DESCRIPTIVE NOTE: (DC-105) 16MM, 5 MIN., COLOR.

ABSTRACT: USE OF THE REAGENT BOTTLE IN THE CHEMISTRY LABORATORY.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 15139 :PRICE; $5.00 (RENTAL, BLACK & WHITE), $6.50 (RENTAL, COLOR)

IRIS ACCESSION NUMBER: EW000931

PUBLICATION DATE: 76

TITLE: SAFETY IN THE LABORATORY.

PERSONAL AUTHOR: DISRAELI R.
DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *CHEMISTRY; FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY SKILLS; *LABORATORY SAFETY; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (DC-111) 16MM, 8 MIN., COLOR.

ABSTRACT: SAFETY PROCEDURES THAT SHOULD BE USED IN THE CHEMISTRY LABORATORY.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 15139, PRICE: $5.00 (RENTAL, BLACK & WHITE), $7.00 (RENTAL, COLOR)

IRIS ACCESSION NUMBER: EW000932

PUBLICATION DATE: 76

TITLE: SOLIDS.

PERSONAL AUTHOR: DISRAELI R.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY SKILLS; POST SECONDARY EDUCATION; *SOLIDS

DESCRIPTIVE NOTE: (DC-106) 16MM, 5 MIN., COLOR.

ABSTRACT: PROCEDURES FOR HANDLING SOLIDS IN THE CHEMISTRY LABORATORY.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 15139, PRICE: $5.00 (RENTAL, BLACK & WHITE), $6.50 (RENTAL, COLOR)

IRIS ACCESSION NUMBER: EW000933

PUBLICATION DATE: 76

TITLE: TEST TUBE.

PERSONAL AUTHOR: DISRAELI R.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY SKILLS; *LABORATORY EQUIPMENT; POST SECONDARY EDUCATION; *SCIENCE EQUIPMENT; *TEST TUBES

DESCRIPTIVE NOTE: (DC-104) 16MM, 7 MIN., COLOR.

ABSTRACT: HOW TO HANDLE AND USE A TEST TUBE.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 15139, PRICE: $5.00 (RENTAL, BLACK & WHITE), $6.50 (RENTAL, COLOR)

IRIS ACCESSION NUMBER: EW000934
PUBLICATION DATE: 76

TITLE: VAPORS.

PERSONAL AUTHOR: DISRAELI R.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *LABORATORY SKILLS; POST SECONDARY EDUCATION; *VAPORS

DESCRIPTIVE NOTE: (DC-109) 16MM, 3 MIN., COLOR.

ABSTRACT: WORKING WITH VAPORS IN THE CHEMISTRY LABORATORY.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 15139 PRICE: $4.00 (RENTAL, BLACK 8 WHITE), $5.00 (RENTAL, COLOR)

IRIS ACCESSION NUMBER: EW000936

PUBLICATION DATE: 76

TITLE: TUNNELING DOWN TO EARTH.

DESCRIPTOR: AUDIOVISUAL AIDS; *CONSTRUCTION; FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *TUNNELING

DESCRIPTIVE NOTE: (KB-113) 16MM, 18 MIN., COLOR.

ABSTRACT: PROCEDURES FOR TUNNELING IN EARTH IN PIPE CONSTRUCTION.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 15139, PRICE: $30.00 (RENTAL PER WEEK)

IRIS ACCESSION NUMBER: EW000937

PUBLICATION DATE: 76

TITLE: WEAR YOUR HARD HAT.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; CONSTRUCTION; FILMS; *HARD HATS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PROTECTIVE CLOTHING; *PROTECTIVE EQUIPMENT; *SAFETY

DESCRIPTIVE NOTE: (KB-114) 16MM, 8 MIN., COLOR.

ABSTRACT: IMPORTANCE OF WEARING A HARD HAT ON CONSTRUCTION SITES.

AVAILABILITY: ASSOCIATED INSTRUCTIONAL MATERIALS, 324 DELAWARE AVE, OAKMONT, PA 15139, PRICE: $30.00 (RENTAL PER WEEK)

IRIS ACCESSION NUMBER: EW000955
PUBLICATION DATE: 73

TITLE: BIOLOGICAL METHODS FOR THE ASSESSMENT OF WATER QUALITY.

PERSONAL AUTHOR: CAIRNS, J.; DICKSON, K. L.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; ANIMALS; BACTERIA; BIOLOGICAL ANALYSIS; ECOLOGY; ECOSYSTEMS; EUTROPHICATION; LAKES; *MICROBIOLOGY; *MONITORING; PATHOGENS; PLANTS; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 256P. STP 528

ABSTRACT: INTENDED TO BE A MANAGEMENT TOOL TO APPRISE THE READER OF THE TYPES OF CONSIDERATIONS INVOLVED IN MAKING BIOLOGICAL ASSESSMENTS OF WATER QUALITY, DEVELOPING WATER POLLUTION MONITORING PROGRAMS, AND ASSESSING THE EFFECTS OF POTENTIALLY DELETERIOUS WASTE DISCHARGES IN THE AQUATIC ENVIRONMENT. PROVIDES INFORMATION WHICH WOULD ENABLE A NONBIOLOGIST TO GET A VIEW OF TECHNIQUES AVAILABLE, AS WELL AS SOME HISTORIC PERSPECTIVE.

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE STREET, PHILADELPHIA, PA 19103, PRICE: $16.25

IRIS ACCESSION NUMBER: EW000956

PUBLICATION DATE: 75

TITLE: ANNUAL BOOK OF ASTM STANDARDS, 1976; PART 31, WATER

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *BACTERIA; *CHEMICALS; CORROSION; ENVIRONMENT; *MEASUREMENT TECHNIQUIES; *MONITORING; *SAMPLING; *STANDARDS; *WATER QUALITY

DESCRIPTIVE NOTE: 924P. PUBL NO 01-031074-16

ABSTRACT: CONTAINS THE ASTM STANDARDS ON WATER ANALYSIS.

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE STREET, PHILADELPHIA, PA 19103 PRICE: $35.00

IRIS ACCESSION NUMBER: EW000987

PUBLICATION DATE: 75

TITLE: SEWERS FOR GROWING AMERICA.

PERSONAL AUTHOR: COHN, M

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *MUNICIPAL WASTES; *PIPES; *PUBLIC HEALTH; POST SECONDARY EDUCATION; *SEWERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 202P.

ABSTRACT: THIS BOOK EMPHASIZES THE USE OF CERTAIN-TEED PIPE SYSTEMS TO MEET SEWERAGE REQUIREMENTS. IT PROVIDES A DETAILED HISTORY OF SEWAGE, AND STRESSES MUNICIPAL AND PUBLIC HEALTH REQUIREMENTS. TABLES, NUMBER GRAPHS, AND ILLUSTRATIONS ARE INCLUDED.

AVAILABILITY: CERTAIN-TEED PRODUCTS CORP., PIPE DIVISION, LEA BUILDING, AMBLER, PA 19002 (FREE)

IRIS ACCESSION NUMBER: EW001007

PUBLICATION DATE: 70

TITLE: SLOW DEATH OF THE DESERT WATER.

DESCRIPTOR: *AUDIOVISUAL AIDS; CONSERVATION EDUCATION; *DESERT; ENVIRONMENT; *ECOLOGY; *FILMS; *INSTRUCTIONAL MATERIALS; *INSTRUCTIONAL FILMS; LAND USE; NATURAL RESOURCES; *POST SECONDARY EDUCATION; POLLUTION; *WATER RESOURCES; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: ORDER NO. 30C; 16MM, 30 MIN., COLOR

ABSTRACT: PYRAMID LAKE, IN NEVADA, IS DRYING UP BECAUSE OF MAN'S INTERFERENCE WITH NATURE. THE SOURCE OF WATER IS A RIVER FROM LAKE TAHOE, BUT DAMS DIVERT MOST FOR OTHER PURPOSES AND LAKE TAHOE, ITSELF, IS BECOMING POLLUTED. SOME FISH ARE ALREADY EXTINCT AND THE EXISTENCE OF WHITE PELICANS AND CUI-CUI, A DESERT FISH FOUND NOWHERE ELSE IN THE WORLD, IS THREATENED.

AVAILABILITY: COORDINATOR OF FILM INFORMATION, AUDIO-VISUAL CENTER, INDIANA UNIVERSITY, BLOOMINGTON, IN 47401 ($12.50)

IRIS ACCESSION NUMBER: EW001009

TITLE: MODERN WATER TREATMENT.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 16MM FILM.

ABSTRACT: REVIEW OF WATER TREATMENT METHODS.

AVAILABILITY: INFILCO DEGREMONT INC., KOGER EXECUTIVE CENTER, BOX K-7, RICHMOND, VA 23288 (FREE RENTAL)

IRIS ACCESSION NUMBER: EW001010

TITLE: THE ACCELATOR.

DESCRIPTOR: *ACCELATORS; *AUDIOVISUAL AIDS; EQUIPMENT; FILMS; *INSTRUCTIONAL FILMS; *INSTRUMENTATION; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *SEDIMENTATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 16MM 17 MIN., COLOR.

ABSTRACT: DESCRIBES THE OPERATION OF THE ACCELATOR.

AVAILABILITY: INFILCO DESREMONT INC., KOGER EXECUTIVE CENTER, BOX K-7, RICHMOND, VA 23288 (FREE RENTAL)

IRIS ACCESSION NUMBER: EW001011

TITLE: WATER, WASTEWATER, AND ADVANCED WASTEWATER CAPABILITY.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; INSTRUCTIONAL FILMS; *OPERATIONS(WATER); *OPERATIONS(WASTEWATER); POST SECONDARY EDUCATION; *RECYCLING; *WATER REUSE; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: DB-010

ABSTRACT: DESCRIBES POSSIBLE RECYCLING TECHNOLOGIES.

AVAILABILITY: INFILCO DEGREMONT INC., KOGER EXECUTIVE CENTER, BOX K-7, RICHMOND, VA 23288(FREE RENTAL)

IRIS ACCESSION NUMBER: EW001014

TITLE: BIOLOGICAL INDICATORS OF ENVIRONMENTAL QUALITY.

PERSONAL AUTHOR: THOMAS, W.A.; GOLDSTEIN, G

DESCRIPTOR: *BIBLIOGRAPHIES; *BIOLOGY; *ENVIRONMENTAL QUALITY; *INSTRUCTIONAL MATERIALS; *MEASUREMENT; POST SECONDARY EDUCATION; *MONITORING; SCIENCE EDUCATION; *WATER QUALITY

ABSTRACT: THIS IS A SOURCE BOOK ON LIVING ORGANISMS AS THEY PROVIDE ASSESSMENT OF ENVIRONMENTAL QUALITY. DEALS WITH CELL-FREE SYSTEMS; CULTURED CELLS-TISSUES, AND ORGANS; PLANT TISSUE; AND ORGANISMS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI 48106 PRICE: $18.00

IRIS ACCESSION NUMBER: EW001015

PUBLICATION DATE: 75

TITLE: DETECTION AND DETERMINATION OF TRACE ELEMENTS.

PERSONAL AUTHOR: PINTA, M

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *METALS; POST SECONDARY EDUCATION; *SAMPLING; *SPECTROPHOTOMETRY; *WATER POLLUTION CONTROL

ABSTRACT: A PRESENTATION OF BASIC METHODS OF TRACE ANALYSIS

OF ELEMENTS. COVERS ABSORPTION SPECTROPHOTOMETRY OR COLORIMETRY; EMISSION SPECTROPHOTOMETRY; AND POLAROGRAPHIC ANALYSIS. PRESENTS GENERAL SURVEY OF METHODS SUCH AS FLUORESCENCE AND X-RAY SPECTROSCOPY AND RADIOCHEMICAL METHODS. TECHNIQUES ARE USEFUL FOR AIR AND WATER POLLUTION CONTROL, BIOLOGY, CHEMISTRY, AND NUCLEAR CHEMISTRY.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI 48106 PRICE: $24.50

IRIS ACCESSION NUMBER: EW001016

PUBLICATION DATE: 75

TITLE: HOW TO SAY IT SO THEY HEAR IT.

PERSONAL AUTHOR: SHOWALTER, D.

DESCRIPTOR: *COMMUNICATION; *INSTRUCTIONAL MATERIALS; LANGUAGE ARTS; *PUBLIC SPEAKING.

DESCRIPTIVE NOTE: 160P.

ABSTRACT: SHOWS HOW TO FACE AN AUDIENCE, SPEAK (OR WRITE) TO AN AUDIENCE, AND PLEASE AN AUDIENCE, LARGE OR SMALL. PRECISE, CONCRETE GUIDEPOSTS TO GETTING IT SAID, AND BEING HEARD.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., PO BOX 1425, ANN ARBOR, MI 48106 PRICE: $7.50

IRIS ACCESSION NUMBER: EW001018

PUBLICATION DATE: 75

TITLE: ANALYSIS OF ORGANIC POLLUTANTS IN WATER AND WASTEWATER.

PERSONAL AUTHOR: LEITHE, W

DESCRIPTOR: *ANALYTICAL TECHNIQUES; CHEMISTRY; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *LABORATORY TECHNIQUES; *ORGANIC POLLUTANTS; PESTICIDES; *POLLUTANTS; POST SECONDARY EDUCATION; *SAMPLING; TOXIC SUBSTANCES; *WATER TREATMENT; *WASTEWATER TREATMENT

ABSTRACT: REFERENCE FOR PERFORMING ANALYSIS OF ORGANIC POLLUTANTS. COVERS WATER TECHNOLOGY, HYGIENE, AND ASPECTS OF ENGINEERING. CHARACTERIZES ANALYTICAL METHODS, PARTICULARLY CHROMATOGRAPHIC SEPARTATION, SAMPLING, ENRICHMENT, AND ODOR TESTING. DEALS ALSO WITH ELEMENTAL ANALYSIS AND INSTRUMENTAL METHODS AND INCLUDES SPECIAL SECTIONS ON INDIVIDUAL POLLUTANTS. POLLUTANTS COVERED: CYANIDES, PHENOLS, DETERGENTS, HYDROCARBONS, PESTICIDES, UROCHROMIC AGENTS, HUMIC ACID, PUMP WASTE.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI 48106 PRICE: $15.00

IRIS ACCESSION NUMBER: EW001019

PUBLICATION DATE: 75

TITLE: CHEMISTRY OF WATER SUPPLY TREATMENT AND DISTRIBUTION.

PERSONAL AUTHOR: RUBIN, A.J

DESCRIPTOR: ADSORPTION; *ANALYTICAL TECHNIQUES; *CHEMISTRY; COAGULATION; CHLORINATION; DISINFECTION; FILTRATION; *INSTRUCTIONAL MATERIALS; METALS; POST SECONDARY EDUCATION; *RESEARCH; *WATER DISTRIBUTION; *WATER TREATMENT

ABSTRACT: COVERS RECENT RESEARCH ON CHEMICAL ASPECTS OF PRODUCING AND DELIVERING POTABLE WATER. COVERS: WATER QUALITY, ANALYTICAL TECHIQUES, TREATMENT CONSIDERATIONS, AND AQUEOUS CHEMISTRY OF TRACE ELEMENTS. ALSO DEALS WITH DISINFECTION OF BACTERIA AND VIRUSES WITH BROMINE AND OZONE AS WELL AS CHLORINE. CONSIDERS CHLORINATION, DECHLORINATION, PRECIPITATION, FILTRATION AND ADSORPTION.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI J8106 PRICE $22.50

IRIS ACCESSION NUMBER: EW001028

PUBLICATION DATE: 74

TITLE: TRACE METALS AND METAL ORGANIC INTERACTIONS IN NATURAL WATERS.
PERSONAL AUTHOR: SINGER, P.C

DESCRIPTOR: AQUATIC PLANTS; BOTANY; *CHEMISTRY; FISH; *INSTRUCTIONAL MATERIALS; *METALS; ORGANIC COMPOUNDS; *POST SECONDARY EDUCATION; *TOXIC SUBSTANCES; *WATER RESOURCES; *WATER SUPPLY

ABSTRACT: DISCUSSED ARE THE SIGNIFICANCE OF METALS IN DRINKING WATER, TOXICITY TO PLANTS AND MAN, AND NUTRIENT AVAILABILITY. DISCUSSES METHODS OF TRACE ANALYSIS IN AQUATIC SYSTEMS AND IDENTIFICATION OF ORGANIC MATERIALS IN AQUEOUS SOLUTIONS. DEALS WITH TRACE ELEMENTS IN NATURAL WATERS AND FACTORS AFFECTING DISTRIBUTION OF TRACE ELEMENTS. FURTHER CHAPTERS INCLUDE DISCUSSION ON: PATHWAYS OF MERCURY, METAL-ORGANIC COMPLEXES IN NATURAL WATERS; BIODEGRADATION OF METAL CHELATES IN RIVER WATER; AND CHEMISTRY OF FULVIC ACID AND ITS REACTIONS WITH METAL IONS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425 ANN ARBOR, MI 48106 PRICE: $22.50

IRIS ACCESSION NUMBER: EW001030

PUBLICATION DATE: 76

TITLE: HOW TO MAKE THE OSHA WORK FOR YOU.

PERSONAL AUTHOR: SHOWALTER, D. R.

DESCRIPTOR: *ACCIDENT PREVENTION; *LAWS; *OSHA; *REGULATIONS; *SAFTEY

DESCRIPTIVE NOTE: 144P.

ABSTRACT: GUIDELINES WHICH DEAL WITH THE OSHA FROM THE STANDPOINT OF ITS FAR-REACHING EFFECTS ON EMPLOYER-EMPLOYEE RELATIONS.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., PO BOX 1425, ANN ARBOR, MI 48106, PRICE: $10.00

IRIS ACCESSION NUMBER: EW001031

PUBLICATION DATE: 74

TITLE: WATER AND COMMUNITY DEVELOPMENT.

PERSONAL AUTHOR: FIELD, D.R.; BARRON, J.C

DESCRIPTOR: *COMMUNITY DEVELOPMENT; *ECONOMICS; *INSTRUCTIONAL MATERIALS; NATURAL RESOURCES; *PLANNING; *PUBLIC PARTICIPATION; POST SECONDARY EDUCATION; RESOURCE DEVELOPMENT; *WATER PLANNING; *WATER TREATMENT

DESCRIPTIVE NOTE: 312P. 5 FIGURES, 32 TABLES

ABSTRACT: EXPLORES CHANGING NATURE OF RESOURCE DEVELOPMENT TO SHOW SOCIAL/ECONOMIC CONSEQUENCES FOR THE COMMUNITY IN SOCIETY. INCLUDES DISCUSSION OF THEORETICAL PERSPECTIVES, WATER RESOURCES RESPONSE. ALSO CONSIDERED ARE COMMUNITY AND LEISURE AND ENVIRONMENTAL DEMANDS ON WATER.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI 48106 PRICE: $12.50

IRIS ACCESSION NUMBER: EW001037

PUBLICATION DATE: 77

TITLE: WATER SUPPLY AND POLLUTION CONTROL.

PERSONAL AUTHOR: CLARK; VIESSMAN; AND HAMMER

DESCRIPTOR: *ENGINEERING; ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SANITATION; *WATER SUPPLY; *WATER POLLUTION CONTROL; WASTEWATER TREATMENT.

ABSTRACT: INTRODUCTORY TEXT FOR UNDERGRADUATE STUDENTS IN FIELD OF SANITARY ENGINEERING.

AVAILABILITY: INTEXT EDUCATIONAL PUBLISHERS, 257 PARK AVE. SOUTH, NEW YORK, NY 10010 PRICE: $21.95

IRIS ACCESSION NUMBER: EW001075

PUBLICATION DATE: 76

TITLE: WATER HARDNESS UNIT.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *HARDNESS; *INSTRUCTIONAL MATERIALS; ION EXCHANGE; LABORATORY TECHNIQUES; SOFTENING; *VISUAL AIDS; *WATER ANALYSIS

DESCRIPTIVE NOTE: ORDER NO. 5556; INCLUDES HANDBOOK "A STUDY OF WATER QUALITY"; PACKAGED IN AN ATTACHE CARRYING CASE

ABSTRACT: ALL THE NECESSARY GLASSWARE, REAGENTS, APPARATUS AND TRANSPARENCIES ARE FURNISHED AS PART OF THE OUTFIT. THE DEMONSTRATION INCLUDES TESTING FOR HARD WATER, SOFTENING BY ION EXCHANGE AND RETESTING TO SHOW THE REMOVAL OF THE HARDNESS FACTOR. A DEMONSTRATION IS INCLUDED TO SHOW THE SOAP-CONSUMING POWER OF HARD WATER.

AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, EDUCATIONAL PRODUCTS DIVISION, CHESTERTOWN, MD 21620 ($32.90)

IRIS ACCESSION NUMBER: EW001076

PUBLICATION DATE: 76

TITLE: WATER PH UNIT.

DESCRIPTOR: *ACIDITY; *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *PH; VISUAL AIDS; *WATER ANALYSIS; WATER QUALITY

DESCRIPTIVE NOTE: ORDER NO. 5557; INCLUDES HANDBOOK "A STUDY OF WATER QUALITY"; PACKAGED IN AN ATTACHE CARRYING CASE

ABSTRACT: ALL THE NECESSARY GLASSWARE, REAGENTS, APPARATUS AND TRANSPARENCIES ARE FURNISHED AS PART OF THE OUTFIT. A PH INDICATON SOLUTION IS ACIDIFIED. IT IS THEN NEUTRALIZED AND THE COLOR CHANGES OBSERVED AS THE NEUTRALIZATION PROCESS TAKES PLACE. WATER SAMPLES OF AN UNKNOWN PH VALUE MAY BE TESTED.

AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, EDUCATIONAL PRODUCTS DIVISION, CHESTERTOWN, MD 21620 ($32.90)

IRIS ACCESSION NUMBER: EW001077

PUBLICATION DATE: 76

TITLE: IRON IN WATER UNIT.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *IRON; *LABORATORY TECHNIQUES; VISUAL AIDS; *WATER ANALYSIS

DESCRIPTIVE NOTE: ORDER NO. 5558; INCLUDES "A STUDY OF WATER QUALITY"; PACKAGED IN AN ATTACHE CARRYING CASE

ABSTRACT: THIS UNIT IS DESIGNED FOR USE WITH AN OVERHEAD PROJECTOR. ALL THE NECESSARY GLASSWARE, REAGENTS, APPARTUS AND TRANSPARENCIES ARE FURNISHED AS PART OF THE OUTFIT. A WATER SAMPLE IS PREPARED AND TESTED FOR A HIGH IRON CONTENT. IT IS THEN TREATED TO REMOVE IRON BY THE PRINCIPLE OF OXIDATION AND RETESTED TO PROVE THE EFFECTIVENESS OF THE TREATMENT TECHNIQUE. UNKNOWN SAMPLES MAY BE TESTED FOR IRON CONTENT.

AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, EDUCATIONAL PRODUCTS DIVISION, CHESTERTOWN, MD 21620 ($32.90)

IRIS ACCESSION NUMBER: EW001078

PUBLICATION DATE: 76

TITLE: CHLORINATION, TASTE, ODOR, COLOR, TURBIDITY UNIT.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; *CHLORINATION; DECHLORINATION; *CHLORINE; *INSTRUCTIONAL MATERIALS; LABORATORY TECHNIQUES; *ODOR; *TASTE; TURBIDITY; *WATER ANALYSIS

DESCRIPTIVE NOTE: ORDER NO. 5559; INCLUDES HANDBOOK, "A STUDY OF WATER QUALITY"; PACKAGED IN ATTACHE CASE

ABSTRACT: THIS UNIT IS DESIGNED FOR USE WITH AN OVERHEAD PROJECTOR. ALL THE NECESSARY GLASSWARE, REAGENTS, APPARATUS AND TRANSPARENCIES ARE FURNISHED AS PART OF THE OUTFIT. A WATER SAMPLE IS CHLORINATED AND TESTED FOR CHLORINE. THE SAMPLE IS TREATED TO REMOVE THE TASTE AND ODOR OF CHLORINE AND RETESTED. AN EXPERIMENT IS INCLUDED TO SHOW THE REMOVAL OF COLOR AND TURBIDITY FROM A PREPARED WATER SAMPLE. UNKNOWN SAMPLES MAY BE TESTED.

AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, EDUCATIONAL PRODUCTS DIVISION, CHESTERTOWN, MD 21620 ($32.90)

IRIS ACCESSION NUMBER: EW001079

PUBLICATION DATE: 76

TITLE: WATER POLLUTION DETECTION OUTFIT FOR ALKALINITY, AMMONIA, CALCIUM, CARBON DIOXIDE, CHLORIDES, CHLORINE, CHROMIUM, COPPER, CYANIDE, DISSOLVED SOLIDS, TOTAL HARDNESS, IRON, MAGNESIUM, NITRATES, PH, PHOSPHATE, SALINITY, AND SULFIDES.

DESCRIPTOR: ALKALINITY; *ANALYTICAL TECHNIQUES; *CHEMICAL ANALYSIS; CHLORINE; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; METALS; *PH; SALINITY; *WATER ANALYSIS

DESCRIPTIVE NOTE: ORDER NO. 5905; PACKAGED IN ATTACHE CARRYING CASE

ABSTRACT: THIS OUTFIT INCLUDES ALL THE NEEDED GLASSWARE, REAGENTS AND APPARTUS TO TEST FOR ALKALINITY, AMMONIA, CALCIUM, CARBON DIOXIDE, CHLORIDES, CHLORINE, CHROMIUM, COPPER, CYANIDE, DISSOLVED SOLIDS, TOTAL HARDNESS, IRON, MAGNESIUM, NITRATES, PH PHOSPHATE, SALINITY AND SULFIDE. SUITABLE FOR FIELD OR CLASSROOM INSTRUCITON.

AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, EDUCATIONAL PRODUCTS DIVISION, CHESTERTOWN, MD 21620 ($131.90)

IRIS ACCESSION NUMBER: EW001080

PUBLICATION DATE: 76

TITLE: PH, BUFFER, ACID-BASE TITRATION OUTFIT.

DESCRIPTOR: *ACIDITY; *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *PH; *TITRATION; VISUAL AIDS; *WATER ANALYSIS

DESCRIPTIVE NOTE: ORDER NO. 5682, INCLUDE HANDBOOK "PH, BUFFERS AND ACID-BASE TITRATIONS"

ABSTRACT: THIS OUTFIT IS DESIGNED FOR USE WITH AN OVERHEAD PROJECTOR. ALL THE NECESSARY GLASSWARE, REAGENTS, APPARATUS AND TRANSPARENCIES ARE FURNISHED AS PART OF THE OUTFIT. THE REAGENT SYSTEMS INCLUDE A SERIES OF PH INDICATOR SOLUTIONS, BUFFERS AND STANDARDIZED ACIDS AND BASES. THE INSTRUCTION MANUAL INCLUDES STEP-BY STEP PROCEDURES AND HAS A GLOSSARY.

AVAILABILITY: LAMOTTE CHEMICAL PRODUCTS COMPANY, EDUCATIONAL PRODUCTS DIVISION, CHESTERTOWN, MD 21620 ($74.70)

IRIS ACCESSION NUMBER: EW001082

PUBLICATION DATE: 73

TITLE: SAFE DRINKING WATER FOR ALL: WHAT YOU CAN DO.

DESCRIPTOR: LAWS; *PUBLIC PARTICIPATION; POLLUTION; POST SECONDARY EDUCATION; *REGULATIONS; *WATER SUPPLY; *WATER QUALITY; *WATER POLLUTION CONTROL; *WATER TREATMENT

DESCRIPTIVE NOTE: 4P. PUB NO 247, FUNDED BY EPA TECHNICAL TRAINING GRANT.

ABSTRACT: EXPLAINS CITIZEN'S ROLE IN ASSURING A SAFE WATER SUPPLY SYSTEM: BACKGROUND READING, ORGANIZING A GROUP, GETTING INFORMATION AT THE WATER TREATMENT PLANT. SUGGESTS KEY QUESTIONS TO ASK ABOUT GOVERNMENT AUTHORITY, WATER SUPPLY SYSTEM AND ENFORCEMENT RESPONSIBILITIES. RECOMMENDS A COURSE OF ACTION TO ENLIST PUBLIC SUPPORT AND WORK FOR IMPROVEMENTS IN QUALITY SUPPLY.

AVAILABILITY: LEAGUE OF WOMEN VOTERS EDUCATION FUND, 1730 M ST NW, WASHINGTON, DC 20036 ($0.25)

IRIS ACCESSION NUMBER: EW001107

PUBLICATION DATE: 73

TITLE: CLEANSING OUR WATERS.

PERSONAL AUTHOR: HILL, G.

DESCRIPTOR: ENVIRONMENT; *ENVIRONMENTAL INFLUENCES; *LAWS; *POLLUTION; *REGULATIONS; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 28P. (NO. 497) PAMPHLET.

ABSTRACT: A GENERAL REVIEW OF EFFECTS OF POLLUTANTS ON THE ENVIRONMENT AND LEGISLATION AIMED AT PROTECTING THE WATER ENVIRONMENT.

AVAILABILITY: PUBLIC AFFAIRS COMMITTEE, INC., 381 PARK AVENUE SOUTH, NEW YORK, NY 10016 PRICE: $.50

IRIS ACCESSION NUMBER: EW001123

PUBLICATION DATE: 72

TITLE: PERSONAL SAFETY.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *CHEMISTRY; FILMS; *FIRES; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: ORDER NO. 2100; 8MM OR 16MM 2:39 MIN., COLOR

ABSTRACT: HOW TO ACT AND REACT IN THE LABORATORY. DEMONSTRATES EYE PROTECTION, TIEING BACK LONG HAIR, WEARING LOOSE INEXPENSIVE CLOTHING, WEARING LAB COAT OR APRON, AND WEARING PROTECTIVE SHOES. TECHNIQUES SHOWN FOR SMOTHERING CLOTHING FIRE WITH FIRE BLANKET AND LAB APRON.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001125

PUBLICATION DATE: 72

TITLE: FIRE IN THE LABORATORY.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; FILMS; *FIRES; *INSTRUCTIONAL MATERIALS; *LABORATORY SAFETY; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: ORDER NO. 2200; 8MM AND 16MM, 3:30 MIN., COLOR

ABSTRACT: THREE TYPES OF LABORATORY FIRES AND CORRECT PROCEDURES FOR EXTINGUISHING THEM ARE SHOWN. SMALL FIRES ARE SMOTHERED. MEDIUM FIRES ARE PUT OUT WITH CO2 AND DRY POWDER EXTINGUISHERS. METAL FIRE IS SMOTHERED WITH SAND.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001127

PUBLICATION DATE: 72

TITLE: CHEMICAL HAZARDS.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *CHEMICALS; CHEMICAL HAZAARDS; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; LABORATORY SAFETY; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: ORDER NO. 2300; 8MM AND 16MM, 3:42 MIN., COLOR

ABSTRACT: ILLUSTRATES SEVERAL CHEMICAL HAZARDS AND APPROPRIATE PROCEDURES, ANTIDOTES, OR CORRECTIVE ACTIONS. HAZARDS INCLUDE CHEMICALS ON SKIN, DILUTION OF CONCENTRATED ACID, MERCURY SPILL, AND HANDLING SOLID ALKALI.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001129

PUBLICATION DATE: 70

TITLE: INTRODUCTORY LABORATORY TECHNIQUES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *CHEMICALS; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *LABORATORY SAFETY; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: ORDER NO. 3100; 8MM AND 16MM, 3:35 MIN., COLOR

ABSTRACT: DEMONSTRATIONS OF SAFETY-ORIENTED LABORATORY TECHNIQUES: POURING SOLIDS AND LIQUIDS AND HEATING LIQUIDS IN TEST TUBE AND EVAPORATING DISH. DANGERS OF SUPER-HEATED LIQUIDS AND CARELESS REMOVAL OF FLASK FROM FLAME ALSO SHOWN.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001131

PUBLICATION DATE: 70

TITLE: FILTRATION I GRAVITY.

DESCRIPTOR: *AUDIOVISUAL AIDS; CHEMISTRY; FILMS; *FILTRATION; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATROY PROCEDURES; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 3200; 8MM AND 16MM, 3:35 MIN., COLOR

ABSTRACT: DEMONSTRATES QUANTITATIVE ISOLATION OF PRECIPITATE WITH SIMPLE CONICAL FILTER, AND RAPID FILTRATION OF IMPURITIES FROM HOT SOLUTION WITH FLUTED PAPER. STEPS SHOWN INCLUDE FOLDING FILTER PAPERS, WETTING AND SOLVENT, DECANTING SUPERNATANT, AND WASHING PRECIPITATE.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001133

PUBLICATION DATE: 70

TITLE: FILTRATION II VACUUM.

DESCRIPTOR: *AUDIOVISUAL AIDS; CHEMISTRY; FILMS; *FILTRATION; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *LABORATORY SKILLS; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION; *VACUUM FILTRATION

DESCRIPTIVE NOTE: ORDER NO. 3300; 8MM AND 16MM, 3:42 MIN., COLOR

ABSTRACT: DEMONSTRATES ASSEMBLY AND OPERATION OF VACUUM FILTRATION APPARATUS. STEPS INCLUDE ASSEMBLY OF SUCTION FLASK, BUCHNER FUNNEL, TRAP, AND ASPIRATOR. OPERATION INCLUDES WETTING FILTER, ASPIRATING SUPERNATANT AND CRYSTALS, BREAKING VACUUM TO WASH CRYSTALS, AND DRYING FILTER CAKE.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001135

PUBLICATION DATE: 70

TITLE: QUANTITATIVE TRANSFER.

DESCRIPTOR: *AUDIOVISUAL AIDS; FILMS; *FILTRATION; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *LABORATORY SKILLS; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 3600; 8MM AND 16MM, 3:42 MIN., COLOR

ABSTRACT: DEMONSTRATES QUANTITATIVE TRANSFER OF PRECIPITATES, LIQUIDS, AND SOLIDS.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001137

PUBLICATION DATE: 69

TITLE: MEASURING VOLUMES OF SOLIDS AND LIQUIDS.

DESCRIPTOR: *AUDIOVISUAL AIDS; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATROY SKILLS; *LIQUIDS; *MEASUREMENT; POST SECONDARY EDUCATION; *SOLIDS

DESCRIPTIVE NOTE: ORDER NO. 5100; 8MM AND 16MM, 3:42 MIN., COLOR

ABSTRACT: METAL BLOCK VOLUME IS MEASURED BY RULER AND BY LIQUID DISPLACEMENT. A GRADUATED CYLINDER IS USED FOR MEASURING LIQUID VOLUMES. CALIBRATION DATA, MENISCUS, AND MENISCUS ENHANCEMENT WITH LIGHT AND DARK CARD ARE ALSO SHOWN.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001139

PUBLICATION DATE: 69

TITLE: PIPETTING I CLEANING AND USING A TRANSFER PIPETTE.

DESCRIPTOR: *AUDIOVISUAL AIDS; EQUIPMENT; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY SKILLS; *LABORATORY EQUIPMENT; *PIPETTES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 5200; 8MM AND 16MM, 3:42 MIN., COLOR

ABSTRACT: PIPETTE CLEANING USES CLEANING SOLUTION, TAP WATER RINSES, AND FINAL DISTILLED WATER RINSE. CLEAN PIPETTE IS RINSED WITH REAGENT AND FILLED, USING BULB. FINGER TECHNIQUE, CORRECT MENISCUS POSITION, REMOVAL OF DROP FROM TIP, AND FLUID REMAINING IN TIP AFTER DRAINING ARE EMPHASIZED.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001141

PUBLICATION DATE: 69

TITLE: PIPETTING II GRADUATED PIPETTE AND THREE VALVE BULB.

DESCRIPTOR: AUDIOVISUAL AIDS; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY SKILLS; *LABORATORY EQUIPMENT; *PIPETTES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NO. 5300; 8MM AND 16MM, 3:39 MIN., COLOR

ABSTRACT: EMPHASIZES CALIBRATION DATA, FINGER CONTROL, READING MENISCUS, AND RAISING OF PIPETTE TO KEEP MENISCUS AT EYE LEVEL. SECOND HALF DEMONSTRATES OPERATION OF 3-VALVE BULB.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001143

PUBLICATION DATE: 69

TITLE: TITRATION.

DESCRIPTOR: *AUDIOVISUAL AIDS; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORTORY SKILLS; *LABORATORY EQUIPMENT; *PIPETTES; POST SECONDARY EDUCATION; *TITRATION

DESCRIPTIVE NOTE: ORDER NO. 5400; 8MM AND 16MM, 3:42 MIN., COLOR

ABSTRACT: BURET IS DISASSEMBLED AND CLEANED WITH DETERGENT, TAP WATER, AND DISTILLED WATER. AFTER FLUSHING, BURET IS FILLED AND CAPPED. TECHNIQUES OF READING AND ENHANCING MENISCUS, HANDLING STOPCOCK, AND SWIRLING FLASK ARE DEMONSTRATED.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001145

PUBLICATION DATE: 69

TITLE: WEIGHING I BALANCE CONSTRUCTION AND WEIGHING AN OBJECT.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BALANCES; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY SKILLS; *LABORATORY EQUIPMENT; MEASUREMENT; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: ORDER NUMBER 5500; 8MM AND 16MM, 3:40 MIN., COLOR

ABSTRACT: INTRODUCTION TO PRINCIPLES, PRELIMINARY ADJUSTMENT, AND OPERATION OF MULTIPLE BEAM BALANCE. VALUES OF RIDER WEIGHTS, BALANCE CAPACITY, AND FUNCTION OF POINTER ARE EXPLAINED.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001147

PUBLICATION DATE: 69

TITLE: WEIGHING II WEIGHING OUT SUBSTANCES.

DESCRIPTOR: *AUDIOVISUAL AIDS; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY SKILLS; *MEASUREMENT; POST SECONDARY EDUCATION; *WEIGHING

DESCRIPTIVE NOTE: ORDER NO. 5600; 8MM AND 16MM, 3:42 MIN., COLOR

ABSTRACT: TWO TECHNIQUES ARE DEMONSTRATED: WEIGHING SPECIFIC AMOUNT OF GRANULAR SOLID AND WEIGHING ACCURATELY, AN APPROXIMATE AMOUNT OF AIR-SENSITIVE SOLID.

AVAILABILITY: KALMIA COMPANY CONCORD, MA 01742 (PURCHASE PRICE: $26.95 AND $34.95)

IRIS ACCESSION NUMBER: EW001239

PUBLICATION DATE: 76

TITLE: WATER LABORATORY ANALYSIS.

DESCRIPTOR: INSTRUCTIONAL MATERIALS; *LABORATORY ANALYSES; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION; *WATER TREATMENT; *WATER ANALYSIS

ABSTRACT: PROCEDURES FOR ANALYSES IN THE WATER LABORATORY.

AVAILABILITY: TEXAS A&M UNIVERSITY, TEXAS ENGINEERING EXTENSION SERVICE, FE DRAWER K, COLLEGE STATION, TX 77843

IRIS ACCESSION NUMBER: EW001240

PUBLICATION DATE: 76

TITLE: WASTEWATER LABORATORY ANALYSIS.

DESCRIPTOR: INSTRUCTIONAL MATERIALS; *LABORATORY ANALYSES; *LABORATORY TECHNIQUES; POST SECONDARY EDUCATION; *WASTEWATER TREATMENT; *WATER ANALYSIS

ABSTRACT: PROCEDURES FOR ANALYSES IN THE WASTEWATER LABORATORY.

AVAILABILITY: TEXAS A&M UNIVERSITY, TEXAS ENGINEERING EXTENSION SERVICE, FE DRAWER K, COLLEGE STATION, TX 77843

IRIS ACCESSION NUMBER: EW001241

PUBLICATION DATE: 76

TITLE: WATER UTILITY CALCULATIONS.

DESCRIPTOR: *CALCULATION; *MATHEMATICS; OPERATIONS (WATER); UTILITIES; *WATER QUALITY; WATER TREATMENT

ABSTRACT: CALCULATIONS REQUIRED IN WATER UTILITY OPERATIONS.

AVAILABILITY: TEXAS A&M UNIVERSITY, TEXAS ENGINEERING

EXTENSION SERVICE, FE DRAWER K, COLLEGE STATION, TX 77843

IRIS ACCESSION NUMBER: EW001246

PUBLICATION DATE: 74

TITLE: PROFESSIONAL EDUCATION IN PUBLIC WORKS ENVIRONMENTAL ENGINEERING AND ADMINISTRATION.

DESCRIPTOR: *CURRICULUM DEVELOPMENT; *ENGINEERING; *HIGHER EDUCATION; *PROGRAM DEVELOPMENT; *PUBLIC WORKS ADMINISTRATION; *TECHNICAL EDUCATION; UNIVERSITIES.

DESCRIPTIVE NOTE: 71P.

ABSTRACT: HANDBOOK FOR ESTABLISHING UNIVERSITY CENTERS AND PROGRAMS. DESCRIBES VARIOUS WAYS UNIVERSITIES CAN MAKE A GREATER CONTRIBUTION IN MEETING THE COUNTRY'S CRITICAL NEEDS FOR PROFESSIONALLY EDUCATED PUBLIC WORKS ENGINEERS, TECHNOLOGISTS AND ADMINISTRATORS.

AVAILABILITY: AMERICAN PUBLIC WORKS ASSOC. 1313 EAST 60TH ST., CHICAGO, ILLINOIS 60637 PRICE: $5.00

IRIS ACCESSION NUMBER: EW001263

TITLE: GENERALIZED APPROACH TO ACTIVATED SLUDGE.

PERSONAL AUTHOR: LESPERANCE, T. W.
DESCRIPTOR: *DESIGN; EQUIPMENT; *FACILITIES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *ACTIVATED SLUDGE; *WASTEWATER TREATMENT

ABSTRACT: THEORY OF ACTIVATED SLUDGE AND THE DESIGN OF ACTIVATED SLUDGE SYSTEMS.

AVAILABILITY: BOOK DEPARTMENT, WATER AND WASTES ENGINEERING, 666 FIFTH AVE., NEW YORK, NY 10019 PRICE: $3.00

IRIS ACCESSION NUMBER: EW001265

PUBLICATION DATE: 72

TITLE: POLYELECTROLYTES; AIDS TO BETTER WATER QUALITY. SEMINAR PROCEEDINGS.

DESCRIPTOR: *COAGULATION; *CHEMICAL TREATMENT; *OPERATIONS (WATER); *POLYELECTROLYTES; SEMINARS; *WATER TREATMENT; WATER QUALITY.

DESCRIPTIVE NOTE: REPORT NO 20121

ABSTRACT: A COLLECTION OF ARTICLES COVERING THE THEORY AND USE OF POLYELECTROLYTES IN WATER TREATMENT.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235, ($5.00)

IRIS ACCESSION NUMBER: EW001266
PUBLICATION DATE: 72

TITLE: GETTING THE MOST FROM YOUR WELL SUPPLY: SEMINAR PROCEEDINGS.

DESCRIPTOR: *GROUNDWATER; *MAINTENANCE; *OPERATIONS (WATER); *SEMINARS; *WATER WELLS

DESCRIPTIVE NOTE: REPORT NO 20122

ABSTRACT: NATIONAL GROUNDWATER PROBLEMS, DEVELOPMENT OF GROUNDWATER SUPPLY, DESIGN OF WELL SYSTEMS, AND OPERATION AND MAINTENANCE OF WELL SYSTEMS ARE DISCUSSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235, ($4.00)

IRIS ACCESSION NUMBER: EW001267

PUBLICATION DATE: 73

TITLE: MINIMIZING AND RECYCLING WATER PLANT SLUDGE: SEMINAR PROCEEDINGS.

DESCRIPTOR: MAGNESIUM CARBONATE; *OPERATION(WATER); *RECYCLING; *SLUDGE; *SLUDGE CHARACTERISTICS; SEMINARS; *WATER TREATMENT

DESCRIPTIVE NOTE: REPORT NO 20123
ABSTRACT: WASTE DISCHARGE STANDARDS, SLUDGE VOLUME REDUCTION METHODS, SLUDGE TREATMENT PROCESSES, AND MAGNESIUM CARBONATE RECYCLING SYSTEMS ARE DISCUSSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235, ($6.00)

IRIS ACCESSION NUMBER: EW001268

PUBLICATION DATE: MAY 73

TITLE: DEVELOPING WATER RATES: SEMINAR PROCEEDINGS.

DESCRIPTOR: *COSTS; *DISTRIBUTION SYSTEMS; DECISION MAKING; MANAGEMENT; *OPERATIONS (WATER); *RATES; *WATER RATES

DESCRIPTIVE NOTE: REPORT NO 20124, 5 PAPERS FROM RATE DEVELOPMENT SEMINAR.

ABSTRACT: REVENUE REQUIREMENTS AND ALLOCATION TO COST COMPONENTS, DISTRIBUTION OF COSTS OF WATER SERVICE TO CUSTOMER CLASSES, DEVELOPMENT AND DESIGN OF WATER RATE SCHEDULES, SPECIAL SERVICE CONSIDERATION, AND OTHER RATE PRACTICES ARE DISCUSSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235, ($6.00)

IRIS ACCESSION NUMBER: EW001269

PUBLICATION DATE: 73

TITLE: GROUNDWATER MANUAL.

DESCRIPTOR: AQUIFERS; DESIGN; FLOW MEASUREMENT; *GROUNDWATER; MAINTENANCE; *MANUALS; *OPERATIONS (WATER); PUMPS; *WATER WELLS; WATER QUALITY; *WATER SUPPLY

DESCRIPTIVE NOTE: M21, REPORT NO 30021

ABSTRACT: DEVELOPMENT OF GROUNDWATER SUPPLY, DESIGN AND CONSTRUCTION OF WELL SYSTEMS, OPERATION AND MAINTENANCE OF WELL SYSTEMS, AND WATER QUALITY OF GROUNDWATER SUPPLIES ARE DISCUSSED.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235, ($8.50)

IRIS ACCESSION NUMBER: EW001319

PUBLICATION DATE: 71

TITLE: SANITARY ENGINEERING UNIT OPERATIONS AND UNIT PROCESSES: LABORATORY MANUAL.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMICAL TREATMENT; *ENGINEERING; *INSTRUCTIONAL MATERIALS; *OPERATIONS(WASTEWATER); *PROCESS CONTROLS; POST SECONDARY EDUCATION; *SANITATION; *WASTEWATER TREATMENT
ABSTRACT: PROCEDURES FOR CARRYING OUT PROCESS CONTROL TESTS FOR COAGULATION, FLOCCULATION, MIXING, SEDIMENTATION, FILTRATION, VACUUM FILTRATION, FLOTATION, DISINFECTION, CHEMICAL OXIDATION AND REDUCTION, CORROSION, CHEMICAL PRECIPITATION, ADSORPTION, ION EXCHANGE, BIOLOGICAL OXIDATION, HEAT TRANSFER AND GAS TRANSFER.

AVAILABILITY: ASSOC. OF ENVIRONMENTAL ENGINEERING PROFESSORS, 305 ENGINEERING BLDG., UNIVERSITY OF TEXAS, AUSTIN, TX. 78712 ($12.00)

INSTITUTION NAME: ASSOC. OF ENVIRONMENTAL ENGINEERING PROFESSORS.

IRIS ACCESSION NUMBER: EW001320

PUBLICATION DATE: 73

TITLE: WATER CHEMISTRY: LABORATORY MANUAL.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMISTRY; *CHEMICAL ANALYSIS; *INSTRUCTIONAL MATERIALS; *LABORATORY MANUALS; *LABORATORY PROCEDURES; *POST SECONDARY EDUCATION; *WATER ANALYSIS

ABSTRACT: PROCEDURES FOR A LABORATORY COURSE, INCLUDING TECHNIQUES FOR GRAVIMETRIC AND OPTICAL METHODS OF ANALYSIS, ACID-BASE REACTIONS, COMPLEXATION REACTION, PRECIPITATION REACTIONS, REDOX REACTIONS, MULTIPHASE SYSTEMS, CHEMICAL KINETICS AND CONDUCTIVITY MEASUREMENTS.

AVAILABILITY: AEEP, 305 ENGINEERING BLDG., UNIVERSITY OF TEXAS, AUSTIN, TX 78712 ($5.00)

INSTITUTION NAME: ASSOC. OF ENVIRONMENTAL ENGINEERING PROFESSORS.

IRIS ACCESSION NUMBER: EW001352

PUBLICATION DATE: 74

TITLE: HOW TO MAKE SERIAL DILUTIONS.

DESCRIPTOR: AUDIOVISUAL AIDS; *BACTERIA; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *LABORATORY TECHNIQUES; *SERIAL DILUTIONS

DESCRIPTIVE NOTE: UNIT: 8101, STUDY GUIDE, SLIDES, AUDIOCASSETTE

ABSTRACT: COVERS LABORATORY PROCEDURES USED TO COMPLETE A SERIAL DILUTION USING A SAMPLE TUBE PLUS EIGHT DILUTION TUBES. ILLUSTRATED USE OF TWO SOLUTIONS WITH AN INDICATOR. PREREQUISITES: KNOWLEDGE OF METRIC SYSTEM OF VOLUMES, USE OF PIPETTES, AND RATIO/CONCENTRATION CALCULATIONS.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD, TARRYTOWN, NY 10591 PRICE: $40.00

IRIS ACCESSION NUMBER: EW001353

PUBLICATION DATE: 75

TITLE: HOW TO FILL, EMPTY AND CLEAN A SYRINGE USING ASEPTIC TECHNIQUE.

DESCRIPTOR: AUDIOVISUAL AIDS; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *LABORATORY TECHNIQUES; *SCIENCE EQUIPMENT; *SYRINGES

DESCRIPTIVE NOTE: NO. 8102 35MM SLIDES, AUDIOCASSETTE, STUDY GUIDE.

ABSTRACT: PROCEDURES ARE DESCRIBED AND SUGGESTED PRACTICE OUTLINED.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $40.00

IRIS ACCESSION NUMBER: EW001354

PUBLICATION DATE: 75

TITLE: HOW TO USE A SYRINGE TYPE AUTOMATIC PIPETTE.

DESCRIPTOR: AUDIOVISUAL AIDS; *INDIVIDUALIZED INSTRUCTION;

IRIS ACCESSION NUMBER: EW002100

PUBLICATION DATE: 76

TITLE: USING SIMPLE LOGARITHMS: PART 2, MULTIPLICATION AND DIVISION.

DESCRIPTOR: AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *LOGARITHMS; *MATHEMATICS

DESCRIPTIVE NOTE: (NO. 804 PART 2) FILMSTRIP OR 35MM SLIDES, CASSETTE, AND STUDY GUIDE.

ABSTRACT: SHOWS THE STUDENT THE MANY PRACTICAL USES FOR LOGS AND ANTI-LOGS. A VARIETY OF SIMPLE EXPERIMENTS IS DEVELOPED IN WHICH MULTIPLICATION AND DIVISION ARE GREATLY SIMPLIFIED THROUGH THE USE OF LOGARITHMS.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002101

PUBLICATION DATE: 76

TITLE: SOLVING SIMPLE EQUATIONS: PART 1, LINEAR AND SIMULTANEOUS.

DESCRIPTOR: *ALGEBRA; AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *LINEAR EQUATIONS; *MATHEMATICS; *SIMULTANEOUS EQUATIONS
DESCRIPTIVE NOTE: (NO 805 PART 1) FILMSTRIP OR 35MM SLIDES, CASSETTE, AND STUDY GUIDE.

ABSTRACT: REVIEWS BASIC CONCEPTS IN ALGEBRA, AND THE SOLUTIONS TO SIMPLE FIRST DEGREE EQUATIONS IN ONE AND TWO UNKNOWNS. SIMULTANEOUS EQUATIONS ARE SOLVED USING COEFFICIENT EQUALIZATION AND SUBSTITUTION METHODS.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002102

PUBLICATION DATE: 76

TITLE: SOLVING SIMPLE EQUATIONS: PART 2, QUADRATIC.

DESCRIPTOR: *ALGEBRA; AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; *QUADRATIC EQUATIONS

DESCRIPTIVE NOTE: (NO. 805 PART 2) FILMSTRIP OR 35MM SLIDES, CASSETTE, AND STUDY GUIDE.

ABSTRACT: INTRODUCES THE CONCEPT OF SECOND DEGREE EQUATIONS AND THE TECHNIQUE FOR FACTORING QUADRATICS IS DEMONSTRATED. THE FORMULA FOR SOLVING THE GENERAL QUADRATIC IS DESCRIBED AND MANY PRACTICAL EXERCISES ARE PROVIDED.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002103

PUBLICATION DATE: 76

TITLE: COLLECTING AND PLOTTING DATA: LINEAR GRAPHS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *GRAPHS; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; *MEASUREMENT.

DESCRIPTIVE NOTE: (NO. 806) FILMSTRIP OR 35MM SLIDES, CASSETTE, AND STUDY GUIDE.

ABSTRACT: INTRODUCES THE CONCEPT OF MEASUREMENT AND THE COLLECTION OF DATA FROM A SIMPLE EXPERIMENT. THE STUDENT PLOTS A LINEAR GRAPH FROM DATA PROVIDED. FROM HIS GRAPH, HE CALCULATES THE SLOPE AND DERIVES AN EQUATION FOR A STRAIGHT LINE. MATERIALS NEEDED TO PLOT LINEAR GRAPHS ARE INCLUDED.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002104

PUBLICATION DATE: 76

TITLE: COLLECTING AND PLOTTING DATA: NON-LINEAR GRAPHS.
DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; *DATA ANALYSIS; *GRAPHS; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; PHYSICAL SCIENCES.

DESCRIPTIVE NOTE: (NO. 807) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: INTRODUCES THE CONCEPT OF NON-LINEAR GRAPHS USING A FAMILIAR EXPERIMENT INVOLVING DISTANCE AND TIME. RELATIONSHIPS ARE DEVELOPED BETWEEN THE SLOPE OF THE CURVE AT A GIVEN POINT AND THE VARIABLES. THEN THE STUDENT LEARNS TO CONSTRUCT A NON-LINEAR GRAPH AND TO INTERPRET ITS SIGNIFICANCE. IT CONCLUDES WITH AN EXERCISE WHERE THE STUDENT PLOTS CONCENTRATION/TIME DATA FOR A CHEMICAL REACTION AND DEDUCES THE RATE LAW. MATERIALS TO PLOT NON-LINEAR GRAPHS ARE INCLUDED.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002105

PUBLICATION DATE: 76

TITLE: COMMON LABORATORY APPARATUS.

DESCRIPTOR: AUDIOVISUAL AIDS; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY

TECHNIQUES; *LABORATORY PROCEDURES; *SCIENCE EQUIPMENT
DESCRIPTIVE NOTE: (NO. 811) FILMSTRIP OF 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: DESIGNED TO ACQUAINT THE BEGINNING CHEMISTRY STUDENT WITH COMMON LABORATORY APPARATUS AND TECHNIQUES. COMMON WEIGHT AND VOLUME MEASURING DEVICES ARE DESCRIBED. FILTER FUNNELS, SUCTION DEVICES, CENTRIFUGES, HEATING METHODS AND THE CARE AND HANDLING OF REAGENTS ARE TREATED.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002106

PUBLICATION DATE: 76

TITLE: PIPETTING TECHNIQUES.

DESCRIPTOR: AUDIOVISUAL AIDS; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY TECHNIQUES; *LABORATORY PROCEDURES; *PIPETTES; *SCIENCE EQUIPMENT

DESCRIPTIVE NOTE: (NO. 812) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: TEACHES THE STUDENT TO IDENTIFY, SELECT AND USE TRANSFER AND MEASURING PIPETTES. THE EMPHASIS IS ON PROPER TECHNIQUES AND ACCURACY. PIPETTING TECHNIQUE IS ILLUSTRATED WITH PHOTOGRAPHS USING SIMPLE STEP-BY-STEP PROCEDURES.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002107

PUBLICATION DATE: 76

TITLE: TITRATION TECHNIQUES.

DESCRIPTOR: AUDIOVISUAL AIDS; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATROY TECHNIQUES; *LABORATORY PROCEDURES; *MEASUREMENT; *TITRATION.

DESCRIPTIVE NOTE: (NO. 813 PART 1) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: GENERAL TECHNIQUES USED IN TITRATION ARE ESTABLISHED. CORRECT TECHIQUES ARE DESCRIBED FOR SETTING UP AND USING A BURET. INDICATOR END-POINTS FOR SEVERAL DIFFERENT CLASSES OF VOLUMETRIC ANALYSES ARE DESCRIBED.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002108
PUBLICATION DATE: 76

TITLE: GRAVIMETRIC ANALYSIS.

DESCRIPTOR: AUDIOVISUAL AIDS; CHEMISTRY; *GRAVIMETRIC ANALYSIS; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *LABORATORY PROCEDURES

DESCRIPTIVE NOTE: (NO. 813 PART 2) FILMSTRIP OR 35MM SLIDE, CASSETTE, STUDY GUIDE.

ABSTRACT: BASIC PRINCIPLES OF GRAVIMETRIC ANALYSIS ARE EXPLAINED AND ILLUSTRATED WITH A STEP-BY-STEP PROCEDURE OF A CHEMICAL ANALYSIS.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002109

PUBLICATION DATE: 76

TITLE: PREPARING SOLUTIONS.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *LABORATORY TECHNIQUES; *SOLUTIONS

DESCRIPTIVE NOTE: (NO. 814) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: COMMON CHEMICAL TERMINOLOGY OF SOLUTIONS IS EXPLAINED. PROCEDURES ARE OUTLINED FOR PREPARING STANDARD SOLUTIONS.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002110

PUBLICATION DATE: 76

TITLE: PH MEASUREMENTS.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AUDIOVISUAL AIDS; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY TECHNIQUES; *LABORATORY PROCEDURES; *MEASUREMENT; *PH

DESCRIPTIVE NOTE: (NO. 815) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE

ABSTRACT: SIMPLE ACCOUNT IS GIVEN OF THE BASIC THEORY OF THE PH METER AND ITS OPERATIONS. IN ADDITION, THE USE OF INDICATORS FOR PH MEASUREMENT IS DISCUSSED.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002111

PUBLICATION DATE: 76

TITLE: COLORIMETRIC ANALYSIS.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AUDIOVISUAL AIDS; *COLORIMETRIC ANALYSIS; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY PROCEDURES; *LABORATORY TECHNIQUES

DESCRIPTIVE NOTE: (NO. 819) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: REVIEWS THE ABSORPTION OF ULTRAVIOLET AND VISIBLE LIGHT. THE BEER-LAMBERT LAW IS DEVELOPED AND THE TECHNIQUE AND INSTRUMENTATION FOR MAKING COLORIMETRIC MEASUREMENTS ARE DESCRIBED.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002112

PUBLICATION DATE: 76

TITLE: METRIC SYSTEM OF LINEAR MEASURE.

PERSONAL AUTHOR: MITCHELL, J.P.

DESCRIPTOR: AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *MEASUREMENT; *METRIC SYSTEM

DESCRIPTIVE NOTE: (NO. 821) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDES.

ABSTRACT: DESCRIBES THE UNITS OF THE METRIC SYSTEM OF LINEAR MEASURE. CONVERSIONS FROM ONE UNIT OF THE SYSTEM TO OTHERS ARE FULLY EXPLAINED. INCLUDES A PRACTICAL EXERCISE IN MEASURING THE LENGTH OF OBJECTS WITH A CENTIMETER RULER.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002113

PUBLICATION DATE: 76

TITLE: METRIC SYSTEM OF MEASUREMENT: VOLUME AND MASS.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: AUDIOVISUAL AIDS; *CONVERSION TABLES; *INSTRUCTIONAL MATERIALS; *MASS; *MEASUREMENT; *METRIC SYSTEM; *VOLUME

DESCRIPTIVE NOTE: (NO. 822) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: DESCRIBES THE UNITS OF METRIC MEASUREMENTS OF VOLUME AND MASS. CONVERSIONS FROM ONE UNIT OF THE SYSTEM TO ANY OTHER UNIT IS EXPLAINED FOR BOTH VOLUME AND MASS MEASUREMENT.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002114

PUBLICATION DATE: 76

TITLE: CONVERSION BETWEEN SYSTEMS: ENGLISH TO METRIC AND VICE VERSA.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: AUDIOVISUAL AIDS; *CONVERSION TABLES; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; *MEASUREMENT; *METRIC SYSTEM

DESCRIPTIVE NOTE: (NO. 823) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: CONVERSION FACTORS BETWEEN THE TWO SYSTEMS ARE EXPLAINED FOR LINEAR VOLUME AND MASS MEASUREMENT. DESCRIBES THE USE OF THESE FACTORS TO CONVERT MEASUREMENTS FROM ONE SYSTEM TO THE OTHER.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002115

PUBLICATION DATE: 69

TITLE: DENSITY AND SPECIFIC GRAVITY.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: AUDIOVISUAL AIDS; *DENSITY; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; *MEASUREMENT; *SPECIFIC GRAVITY

DESCRIPTIVE NOTE: (NO. 824) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: DENSITY AND SPECIFIC GRAVITY ARE DEFINED. PROCEDURES ARE ILLUSTRATED AND EXPLAINED FOR MEASURING DENSITIES OF SOLIDS AND LIQUIDS. EXPLAINS HOW TO PERFORM VARIOUS ELEMENTARY MASS-VOLUME CALCULATIONS.

AVAILABILITY: PRENTICE HALL MEDIA, 150 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002117
PUBLICATION DATE: 76

TITLE: ATOMIC WEIGHTS, MOLECULAR WEIGHTS, AND THE MOLE CONCEPT.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: *ATOMIC WEIGHT; AUDIOVISUAL AIDS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; *MOLE CONCEPT

DESCRIPTIVE NOTE: (NO. 831) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: TEACHES WITH EXAMPLES, THE MEANING OF A.M.U., ATOMIC WEIGHT, AND MOLECULAR WEIGHT. THE MOLE CONCEPT IS DISCUSSED AND THE ESSENTIAL RELATIONSHIP BETWEEN MOLES AND MASS IS DERIVED. THE TERMS, GRAM-ATOMIC WEIGHT AND GRAM-MOLECULAR WEIGHT ARE DEFINED.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRCE: $50.00

IRIS ACCESSION NUMBER: EW002118

PUBLICATION DATE: 76

TITLE: FORMULAS AND COMPOSITION CALCULATIONS.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: AUDIOVISUAL AIDS; *CALCULATION; *CHEMISTRY; *INSTRUCTIONAL MATERIALS

DESCRIPTIVE NOTE: (NO. 832) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: DISCUSSES HOW CHEMICAL FORMULAS GIVE RISE TO DEFINITE WEIGHT RELATIONSHIPS BETWEEN ELEMENTS OF A COMPOUND. PERCENT COMPOSITIONS OF COMPOUNDS ARE CALCULATED FROM FORMULAS. FINALLY, WAYS OF CALCULATING WEIGHTS OF ELEMENTS (OR OTHER COMPOUNDS) OBTAINED FROM A SAMPLE OF A PARTICULAR COMPOUND ARE GIVEN.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002119

PUBLICATION DATE: 76

TITLE: CALCULATIONS INVOLVING EQUATIONS.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: AUDIOVISUAL AIDS; *CALCULATION; *CHEMISTRY; *CHEMICAL EQUATIONS; *INSTRUCTIONAL MATERIALS.

DESCRIPTIVE NOTE: (NO. 834) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: EXPLAINS WHAT IS MEANT BY A BALANCED EQUATION AND EXPLAINS HOW STOICHIOMETRIC INFORMATION CAN BE OBTAINED FROM THE EQUATION. METHODS ARE DESCRIBED FOR SOLVING WEIGHT-WEIGHT PROBLEMS. THE CONCEPT OF THE MOLAR VOLUME OF GASES IS INTRODUCED AND APPLIED TO WEIGHT-VOLUME PROBLEMS. THE IMPORTANCE OF CONVERTING GAS VOLUMES TO S.T.P. IS DISCUSSED.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002120

PUBLICATION DATE: 76

TITLE: CHEMICAL EQUILIBRIA: MOLECULAR AND IONIC PROBLEMS INVOLVING KEQ AND KI.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; *CHEMICAL REACTIONS; *EQUILIBRIUM; *INSTRUCTIONAL MATERIALS.

DESCRIPTIVE NOTE: (NO. 881) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: FACTORS AFFECTING CHEMICAL REACTION RATES ARE DISCUSSED. THE LAW OF MASS ACTION IS DERIVED TO GIVE AN EXPRESSION FOR THE EQUILIBRIUM CONSTANT OF A REVERSIBLE REACTION. IONIC EQUILIBRIA IN WEAK ACIDS AND BASES IS DISCUSSED AND A SERIES OF PROBLEMS RELATING TO EQUILIBRIUM REACTIONS ARE PRESENTED AND SOLVED.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002121

PUBLICATION DATE: 76

TITLE: COMMON ION EFFECT PRINCIPLE, ION PRODUCT CONSTANT FOR WATER, AND INTRODUCTION TO PH.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; *CHEMICAL REACTIONS; *EQUILIBRIUM; *INSTRUCTIONAL MATERIALS; *IONIZATION; *PH

DESCRIPTIVE NOTE: (NO. 882) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: USES THE BASIC PRINCIPLES OF CHEMICAL EQUILIBRIA DISCUSSED IN PROGRAM 881 "CHEMICAL EQUILIBRIA: MOLECULAR AND IONIC POOBLEMS INVOLVING KEQ. AND KI." TO EXPLAIN THE COMMON ION EFFECT AND THE SELF-IONIZATION OF WATER. THE MATHEMATICAL EXPRESSION FOR KW IS DERIVED AND THE CONCEPT OF PH IS INTRODUCED. DISCUSSES TECHNIQUES FOR SOLVING RELATED MATHEMATICAL PROBLEMS.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002122

PUBLICATION DATE: 76

TITLE: PH, POH, AND BUFFERS.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: AUDIOVISUAL AIDS; *BUFFERS; *CHEMISTRY; *CHEMICAL REACTIONS; *INSTRUCTIONAL MATERIALS; *PH; *POH

DESCRIPTIVE NOTE: (NO. 883) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: DESCRIBES THE CONCEPTS OF PH AND POH AND DISCUSSES METHODS FOR CALCULATING THE PH OF IMPORTANT CLASSES OF SOLUTIONS. "BUFFER ACTION" AND THE PREPARATION OF BUFFER SOLUTIONS ARE EXPLAINED.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002123

PUBLICATION DATE: 76

TITLE: HYDROLYSIS OF SALTS.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; *CHEMICAL REACTIONS; EQUILIBRIUM; *HYDROLYSIS; *INSTRUCTIONAL MATERIALS; *SALTS

DESCRIPTIVE NOTE: (NO. 884) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: CHEMICAL EQUILIBRIUM THEORY IS USED TO EXPLAIN THE HYDROLYSIS OF DIFFERENT KINDS OF SALT SOLUTIONS. METHODS FOR CALCULATING THE PH OF SALT SOLUTIONS ARE EXPLAINED.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002124

PUBLICATION DATE: 76

TITLE: POLYPROTIC ACIDS AND SOLUBILITY PRODUCT PRINCIPLE.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: *ACIDS; AUDIOVISUAL AIDS; *CHEMISTRY; *CHEMICAL REACTIONS; *INSTRUCTIONAL MATERIALS; *IONIZATION; *SOLUBILITY

DESCRIPTIVE NOTE: (NO. 885) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: DISCUSSES THE IONIZATION OF POLYPROTIC ACIDS AND METHODS FOR CALCULATING THE PH OF THE SOLUTIONS. THE SOLUBILITY PRODUCT OF SPARINGLY SOLUBLE SALTS IS EXPLAINED WITH TYPICAL NUMERICAL EXAMPLES.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002125

PUBLICATION DATE: 76

TITLE: TITRATION CURVES AND INDICATORS.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: *ACIDS; AUDIOVISUAL AIDS; *BASES; *CHEMISTRY; *CHEMICAL INDICATORS; *CHEMICAL REACTIONS; *INSTRUCTIONAL MATERIALS; *TITRATION

DESCRIPTIVE NOTE: (NO. 886) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: PH CHANGES IN ACID-BASE TITRATIONS ARE DISCUSSED. THE PH CHANGE AT THE END POINT IS EXAMINED FOR DIFFERENT ACIDS AND BASES. THE THEORY OF INDICATORS IS OUTLINED BRIEFLY. FINALLY, THE TITRATION CURVES ARE USED TO EXPLAIN INDICATOR SELECTION.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002126

PUBLICATION DATE: 76

TITLE: PREPARING PERCENT, MOLAR, AND NORMAL SOLUTIONS.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AUDIOVISUAL AIDS; *CHEMISTRY; *CHEMICAL REACTIONS; *CHEMICAL SOLUTIONS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; LABORATORY PROCEDURES; *MOLAR SOLUTIONS; *NORMAL SOLUTIONS

DESCRIPTIVE NOTE: (NO. 896) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: DEFINES THE TERMS SOLUTION, SOLUTE, AND SOLVENT. METHODS OF EXPRESSING CONCENTRATION, PERCENT SOLUTIONS BY WEIGHT AND VOLUME, PARTS PER MILLION, MOLARITY, AND THE GRAM EQUIVALENT WEIGHT ARE DESCRIBED. THESE TERMS ARE USED IN TYPICAL SOLUTION CALCULATIONS.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002127

PUBLICATION DATE: 76

TITLE: DILUTION AND TITRATION PROBLEMS.

PERSONAL AUTHOR: MITCHELL, J. P.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AUDIOVISUAL AIDS; *CHEMISTRY; *CHEMICAL REACTIONS; *CHEMICAL SOLUTIONS; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *TITRATION

DESCRIPTIVE NOTE: (NO. 897) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: DESCRIBES THE TECHNIQUES AND CALCULATIONS FOR PREPARATION OF DILUTE SOLUTIONS FROM CONCENTRATED SOLUTIONS. THE USE OF EQUIVALENTS CALCULATED FROM SOLUTION CONCENTRATION IS DISCUSSED FOR SOLVING VARIOUS TYPES OF TITRATION PROBLEMS. THE TERMS STANDARD SOLUTION, EQUIVALENT POINT, AND END POINT ARE DEFINED.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $50.00

IRIS ACCESSION NUMBER: EW002150

PUBLICATION DATE: 77

TITLE: HOW TO WEIGH TO THE NEAREST 0.1 MG ON A SEMI-MICRO ANALYTICAL BALANCE.

DESCRIPTOR: AUDIOVISUAL AIDS; *BALANCES; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES

DESCRIPTIVE NOTE: (NO. 8109) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: INSTRUCTIONAL PACKAGE FOR LEARNING TO USE THE ANALYTICAL BALANCE.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $40.00

IRIS ACCESSION NUMBER: EW002151

PUBLICATION DATE: 77

TITLE: HOW TO USE LABORATORY THERMOMETERS AND TO CONVERT BETWEEN CELCIUS AND FAHRENHEIT SCALES.

DESCRIPTOR: AUDIOVISUAL AIDS; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *TEMPERATURE; *THERMOMETERS

DESCRIPTIVE NOTE: (NO. 8110) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: INSTRUCTIONAL PACKAGE ON USING A THERMOMETER.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $40.00

IRIS ACCESSION NUMBER: EW002152

PUBLICATION DATE: 77

TITLE: HOW TO USE MEASURING, VOLUMETRIC, PASTEUR, AND LAMBDA PIPETTES.

DESCRIPTOR: AUDIOVISUAL AIDS; BIOLOGY; CHEMISTRY; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *LABORATORY PROCEDURES; *PIPETTES

DESCRIPTIVE NOTE: (NO. 8111) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: INSTRUCTIONAL PACKAGE ON USING PIPETTES.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $40.00

IRIS ACCESSION NUMBER: EW002153

PUBLICATION DATE: 77

TITLE: HOW TO USE VOLUMETRIC GLASSWARE, GRADUATED CYLINDERS, FLASKS, BEAKERS, AND THE VOLUMETRIC FLASK.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; *GLASSWARE; *INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY TECHNIQUES; *SCIENCE EQUIPMENT

DESCRIPTIVE NOTE: (NO. 8112) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: INSTRUCTIONAL PACKAGE ON USE OF VOLUMETRIC GLASSWARE.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $40.00

IRIS ACCESSION NUMBER: EW002154

PUBLICATION DATE: 77

TITLE: HOW TO CONSTRUCT AND READ LINEAR GRAPHS.

DESCRIPTOR: AUDIOVISUAL AIDS; *GRAPHS; *INDIVIDUALIZED INSTRUCTION, *INSTRUCTIONAL MATERIALS

DESCRIPTIVE NOTE: (NO. 8114) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: INSTRUCTIONAL PACKAGE ON HOW TO CONSTRUCT GRAPHS.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $40.00

IRIS ACCESSION NUMBER: EW002155
PUBLICATION DATE: 77

TITLE: HOW TO PREPARE WEIGHT, PERCENT, VOLUME, AND WEIGHT-VOLUME-PERCENT SOLUTIONS.

DESCRIPTOR: AUDIOVISUAL AIDS; *CHEMISTRY; *CHEMICAL SOLUTIONS; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *LABORATORY PROCEDURES

DESCRIPTIVE NOTE: (NO. 8115) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: INSTRUCTIONAL PACKAGE ON PREPARING SOLUTIONS.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $40.00

IRIS ACCESSION NUMBER: EW002156

PUBLICATION DATE: 76

TITLE: HOW TO MEASURE PH WITH CHEMICAL INDICATORS AND A SIMPLE PH METER.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; AUDIOVISUAL AIDS; *CHEMISTRY; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *INSTRUMENTATION; *LABORATORY TECHNIQUES; *PH; *PH METERS

DESCRIPTIVE NOTE: (NO. 8116) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: INSTRUCTIONAL PACKAGE ON USING A PH METER.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $40.00

IRIS ACCESSION NUMBER: EW002157

PUBLICATION DATE: 77

TITLE: HOW TO FILTER LIQUID SUSPENSIONS USING GRAVITY AND VACUUM TECHNIQUES.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILTRATION; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS; *LABORATORY TECHNIQUES; *LABORATORY PROCEDURES

DESCRIPTIVE NOTE: (NO. 8117) FILMSTRIP OR 35MM SLIDES, CASSETTE, STUDY GUIDE.

ABSTRACT: INSTRUCTIONAL PACKAGE ON FILTRATION.

AVAILABILITY: PRENTICE HALL MEDIA, 105 WHITE PLAINS RD., TARRYTOWN, NY 10591 PRICE: $40.00

IRIS ACCESSION NUMBER: EW002159
PUBLICATION DATE: 68

TITLE: ADVANCES IN WATER QUALITY IMPROVEMENT: VOLUMEI, WATER RESOURCES SYMPOSIA SERIES.

PERSONAL AUTHOR: GLOYNA, E.F.; ECKENFELDER, W.W

DESCRIPTOR: BIOLOGICAL TREATMENT; *DESIGN; *FACILITIES; *LAGOONS; *STABILIZATION PONDS; WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: 513P. CRWR WATER RESOURCES SYMPOSIUM NO. 1

ABSTRACT: PRESENTS THINKING ON WASTEWATER HANDLING, TREATMENT, AND DISPOSAL, AND PROGRESS IN WASTEWATER RENOVATION. SECTION TITLES ARE: EFFECTS OF POLLUTANTS ON STREAMS, NEW CONCEPTS IN BIOLOGICAL WASTE TREATMENT; WASTE STABILIZATION POND PRACTICES.

AVAILABILITY: BALCONES RESEARCH CENTER, RT. 4 BOX 189, UNIVERSITY OF TEXAS, AUSTIN, TEXAS 78757 PRICE: $16.95

IRIS ACCESSION NUMBER: EW002160

PUBLICATION DATE: 69

TITLE: EFFECTS OF WATERSHED CHANGES ON STREAMFLOW: VOLUME II, WATER RESOURCES SYMPOSIA SERIES.

PERSONAL AUTHOR: MOORE, W.L.; MORGAN C.W

DESCRIPTOR: FLOW MEASUREMENT; *STREAMS; *WATER RESOURCES; *WATERSHEDS

DESCRIPTIVE NOTE: 289P. 24 OTHER AUTHORS

ABSTRACT: EFFECTS OF WATERSHED CHANGES ON STREAMFLOW ARE PRESENTED.

AVAILABILITY: BALCONES RESEARCH CENTER, RT.4 BOX 189, UNIVERSITY OF TEXAS, AUSTIN, TEXAS 78757 PRICE: $15.00

IRIS ACCESSION NUMBER: EW002161

PUBLICATION DATE: 70

TITLE: WATER QUALITY IMPROVEMENT BY PHYSICAL AND CHEMICAL PROCESSES: VOLUME III, WATER RESOURCES SYMPOSIA.

PERSONAL AUTHOR: GLOYNA, E.F.; ECKENFELDER, W.W

DESCRIPTOR: *CHEMICAL TREATMENT; *PHYSICAL TREATMENT; *RECYCLING; SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 448P. 50 OTHER AUTHORS

ABSTRACT: PRESENTS PHYSICAL AND CHEMICAL METHODS OF WASTEWATER TREATMENT AND HANDLING AND DISPOSAL OF SLUDGES. SECTION TITLES ARE: WATER QUALITY REQUIREMENTS FOR REUSE; FUNCTIONAL DESIGNS RELATED TO REMOVAL OF SETTLEABLE AND SUSPENDED SOLIDS; FUNCTIONAL DESIGNS RELATED TO CHEMICAL TREATMENT OF LIQUID WASTES; FUNCTIONAL DESIGNS RELATED TO SLUDGE SEPARATIONS.

AVAILABILITY: BALCONES RESEARCH CENTER, RT.4 BOX 189 UNIVERSITY OF TEXAS, AUSTIN, TEXAS 78757 PRICE: $16.95

IRIS ACCESSION NUMBER: EW002162

PUBLICATION DATE: 70

TITLE: CONTEMPORARY DEVELOPMENTS IN WATER LAW: VOLUME IV, WATER RESOURCES SYMPOSIA SERIES.

PERSONAL AUTHOR: JOHNSON, C.W.; LEWIS, S.H

DESCRIPTOR: FLOOD CONTROL; GOVERNMENT ROLE; LAND USE; *LAWS; *MANAGEMENT; *REGULATIONS; *WATER QUALITY; *WATER RIGHTS; *WATER RESOURCES

DESCRIPTIVE NOTE: 177P. NINE ADDITIONAL AUTHORS

ABSTRACT: ADAPTATION OF THE LAW OF WATER RIGHTS TO CHANGING SOCIAL AND PHYSICAL CONDITIONS IS DISCUSSED. AN EXAMINATION OF LEGAL ASSURANCES OF WATER QUALITY, RELATIONSHIPS BETWEEN WATER QUALITY AND WATER RIGHTS, AND A REVIEW OF GOVERNMENTAL EFFORTS TO ACHIVE REGIONAL WATER QUALITY MANAGEMENT AND CONTROL IS MADE. GOVERNMENTAL FLOOD CONTROL MEASURES, LAND USES, AND PLANNING OF WATER RESOURCES DEVELOPMENT ARE OTHER SUBJECTS DEALT WITH IN THIS VOLUME.

AVAILABILITY: BALCONES RESEARCH CENTER, RT. 4 BOX 189, UNIVERSITY OF TEXAS, AUSTIN, TEXAS 78757 PRICE: $12.00

IRIS ACCESSION NUMBER: EW002163

PUBLICATION DATE: 72

TITLE: CONFLICTS IN WATER RESOURCES PLANNING: VOLUME V, WATER RESOURCES SYMPOSIA SERIES.

PERSONAL AUTHOR: FLOYNA, E.F.; BUTCHER, W.S

DESCRIPTOR: ECOLOGY; *GOVERNMENT ROLE; *LAND USE; *LEGISLATION; *NATURAL RESOURCES; *PLANNING; *REGULATIONS; *WATER RESOURCES

DESCRIPTIVE NOTE: 172P. 17 OTHER AUTHORS

ABSTRACT: EXAMINES CONFLICTS IN WATER RESOURCES PLANNING IN THE BELIEF THAT AN UNDERSTANDING OF THE ISSUES IS ESSENTIAL TO RESOLVING THE CONFLICT. CONSERVATION OF RESOURCES AND THE RELATION OF WATER RESOURCES PLANNING TO LAND USE POLICY IS DEALT WITH. ALSO DISCUSSED IS GOVERNMENTAL ROLES IN WATER RESOURCES PLANNING AT THE FEDERAL, STATE, AND LOCAL LEVELS. ECOLOGY IS ALSO TAKEN INTO CONSIDERATION.

AVAILABILITY: BALCONES RESEARCH CENTER, RT. 4 BOX 189, UNIVERSITY OF TEXAS, AUSTIN, TEXAS 78757 PRICE: $15.00

IRIS ACCESSION NUMBER: EW002164

PUBLICATION DATE: 73

TITLE: APPLICATIONS OF COMMERCIAL OXYGEN TO WATER AND WASTEWATER SYSTEMS: VOLUME VI, WATER RESOURCES SYMP.

PERSONAL AUTHOR: SPEECE, R.E.; MALINA, J.F

DESCRIPTOR: *ACTIVATED SLUDGE; *DESIGN; *FACILITIES; *MANAGEMENT; *OPERATIONS(WASTEWATER); *OXYGEN; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 368P. 36 OTHER AUTHORS

ABSTRACT: PRESENTS CONCEPTS AND RATIONAL BASES APPLICABLE FOR DESIGN AND OPERATION OF COMMERCIAL OXYGEN FACILITIES. SECTION TITLES ARE: ECONOMICS AND LOGISTICS OF OXYGEN SUPPLY; COMPARATIVE STUDIES WITH AIR AND OXYGEN; DEVELOPMENTAL STAGES OF OXYGEN; OPERATION AND DESIGN OF PILOT AND FULL-SCALE OXYGEN ACTIVATED SLUDGE; OXYGENATION OF RESERVOIRS AND RIVERS.

AVAILABILITY: BALCONES RESEARCH CENTER, RT.4 BOX 189, UNIVERSITY OF TEXAS, AUSTIN, TEXAS 78757 PRICE: $20.00

IRIS ACCESSION NUMBER: EW002166

PUBLICATION DATE: 75

TITLE: WATER MANAGEMENT BY THE ELECTRIC POWER INDUSTRY: VOLUME VIII, WATER RESOURCES SYMPOSIA SERIES.

PERSONAL AUTHOR: GLOYNA, E. F.; WOODSON, H. H.

DESCRIPTOR: CONFERENCES; *ELECTRIC POWER INDUSTRY; ENERGY; *INDUSTRY; *NATURAL RESOURCES; *PLANNING; *RECYCLING; *WATER RESOURCES

DESCRIPTIVE NOTE: 410P.

ABSTRACT: FOCUSES UPON PRIORITIES IN USE OF WATER, DEVELOPMENT OF NEW FUEL SOURCES AND RELATED WATER RESOURCE REQUIREMENTS, ADVANCES IN TECHNOLOGY FOR WATER USE AND REUSE, BENEFICIAL USES OF LOW-GRADE HEAT, AND THE OVERALL IMPACT UPON THE ENVIRONMENT OF RESOURCE ALLOCATION TO THE ELECTRIC POWER INDUSTRY.

AVAILABILITY: BALCONES RESEARCH CENTER, RT 4 BOX 189, UNIVERSITY OF TEXAS, AUSTIN, TX 78757 PRICE: $20.00

IRIS ACCESSION NUMBER: EW002167

PUBLICATION DATE: 76

TITLE: PONDS AS A WASTEWATER TREATMENT ALTERNATIVE: VOLUME IX, WATER RESOURCES SYMPOSIA SERIES.

PERSONAL AUTHOR: GLOYNA, E. F.; MALINA, J. F.

DESCRIPTOR: CASE STUDIES; *CONFERENCE PROCEEDINGS; *DESIGN; ENERGY; *MAINTANENCE; *OPERATIONS (WASTEWATER); *PONDS; *STABLIZATION LAGOONS; TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 447P.

ABSTRACT: THESE PROCEEDINGS EMPHASIZE THE AVAILABLE TECHNOLOGY FOR POND DESIGN, MAINTENANCE, OPERATION, AND PERFORMANCE; THE IMPACT OF THE POND EFFLUENTS ON RECEIVING WATERS, LAND, AND AIR; AND THE APPLICABILITY OF AUXILIARY PROCESSES NEEDED TO ATTAIN SPECIFIED WATER QUALITY CRITERIA. SPECIAL ATTENTION IS DIRECTED TO THE TECHNICAL, ECONOMIC, AND INSTITUTIONAL PROBLEMS OF WASTEWATER TREATMENT AND TO APPLICATIONS OF WASTEWATER TREATMENT PROCESSES THAT MINIMIZE ENERGY CONSUMPTION. THE TECHNICAL BASIS FOR WASTE STABILIZATION POND DESIGNS, AND SPECIFIC INDUSTRIAL CASE HISTORIES ARE ALSO PRESENTED.

AVAILABILITY: BALCONES RESEARCH CENTER, RT. 4 BOX 189, UNIVERSITY OF TEXAS, AUSTIN, TX 78757 PRICE: $20.00

IRIS ACCESSION NUMBER: EW002172

PUBLICATION DATE: 74

TITLE: CORROSION IN NATURAL ENVIRONMENTS

DESCRIPTOR: *ATMOSPHERIC CORROSION; *CORROSION; *METALS; *OCEANOLOGY; *PLANNING; *RESEARCH; *SEAWATER

DESCRIPTIVE NOTE: 352P. STP-558 PUBL. CODE NO. 04-558000-27

ABSTRACT: CONTAINS 19 PAPERS DEALING WITH ATMOSPHERIC CORROSION, METAL CORROSION IN SEAWATER, AND STATISTICAL PLANNING AND ANALYSIS OF CORROSION EXPERIMENTS.

AVAILABILITY: AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW002177

PUBLICATION DATE: 69

TITLE: IS WATER SAFE?

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *LAWS; *POST SECONDARY EDUCATION; *PUBLIC EDUCATION; REGULATIONS; *SAFE DRINKING WATER ACT; *WATER QUALITY

DESCRIPTIVE NOTE: 4P. (NO. 70002)

ABSTRACT: AN ENVELOPE STUFFER THAT ANSWERS PERTINENT QUESTIONS WITH REGARD TO THE SAFE DRINKING WATER ACT.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

IRIS ACCESSION NUMBER: EW002178

TITLE: WATER CONSERVATION AT HOME.

DESCRIPTOR: *CONSERVATION EDUCATION; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PUBLIC EDUCATION; *WATER SUPPLY; *WATER METERS

DESCRIPTIVE NOTE: 14P. NO 70006

ABSTRACT: EXPLAINS WHY, WHERE, AND HOW THE CONSUMER CAN AVOID WASTING WATER. A SIMPLE ILLUSTRATION ON HOW TO READ AND INTERPRET ONE'S OWN WATER METER IS INCLUDED.

AVAILABILITY: AMERICAN WATER WORKS ASSOC., 6666 WEST QUINCY AVE., DENVER, CO 80235

IRIS ACCESSION NUMBER: EW002181

PUBLICATION DATE: 70

TITLE: CARING FOR THE WORLD.

DESCRIPTOR: *AIR POLLUTION; AUDIOVISUAL AIDS; ECOLOGY; *ECOSYSTEMS; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POLLUTION; *VIDEOCASSETTES; *WATER POLLUTION

DESCRIPTIVE NOTE: CAT. NO. 011068 15 MIN., FILM

ABSTRACT: LIVING THINGS THAT COVER THE EARTH--PLANTS, ANIMALS, AND PEOPLE--SHARE IN THE BALANCE OF NATURE. IT IS SHOWN THAT MAN HAS UPSET THE BALANCE OF NATURE BY USING LAND AND TREES WITHOUT REPLACING THEM AND BY BUILDING FACTORIES AND ENGINES WHICH POLLUTE THE AIR AND WATER. IF EVERYONE BEGINS CARING FOR THE EARTH IT WILL BE POSSIBLE FOR THE PLANET'S NATURAL BALANCE TO BE MAINTAINED.

AVAILABILITY: AGENCY FOR INSTRUCTIONAL TELEVISION, BOX A, BLOOMINGTON, IN 47401 PRICE: $110.00

IRIS ACCESSION NUMBER: EW002182

PUBLICATION DATE: 73

TITLE: POLLUTION.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *NATURAL RESOURCES; *POLLUTION; *POPULATION GROWTH; *RECYCLING; *VIDEOCASSETTE

DESCRIPTIVE NOTE: (CAT. NO. 11005); 15 MIN. CASSETTE.

ABSTRACT: CONSIDERS THE RELATIONSHIP BETWEEN POPULATION AND ENVIRONMENTAL DETERIORATION AND INCLUDES A HUMOROUS SILENT MOVIE ON "THE THROWAWAY SOCIETY". PAUL EHRLICH AND BARRY COMMONER PRESENT THEIR VIEWS ON THE CAUSES OF POLLUTION IN AMERICA.

AVAILABILITY: AGENCY FOR INSTRUCTIONAL TELEVEISION, BOX A, BLOOMINGTON, IN 47401 PRICE: $110.00

IRIS ACCESSION NUMBER: EW002228

PUBLICATION DATE: 75

TITLE: RADIATION FOR A CLEAN ENVIRONMENT.

DESCRIPTOR: DESIGN; *DISINFECTION; FACILITIES; *INDUSTRIAL WASTES; *MUNICIPAL WASTES; *MICROBIOLOGY; *OPERATIONS (WASTEWATER); *RADIOACTIVITY; TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 672P.

ABSTRACT: THE USE OF IONIZING RADIATION HAS LONG BEEN ENVISAGED AS A MEANS OF TREATING MUNICIPAL AND INDUSTRIAL WASTES. THIS PUBLICATION EXAMINES THE TECHNOLOGICAL, ECONOMIC, AND ENVIRONMENTAL ASPECTS OF RADIATION WASTE TREATMENT. COVERED ARE THE FOLLOWING SUBJECTS: TECHNOLOGY OF WASTEWATER TREATMENT AND REUSE; RADIO-SENSITIVITY OF MICRO-ORGANISMS; DISINFECTION AND MICROBIOLOGICAL CONTROL; PHYSICAL AND CHEMICAL MODIFICATION OF AQUEOUS POLLUTANTS; TECHNOLOGICAL AND ECONOMIC ASPECTS; PILOT PLANT DESIGN AND OPERATING EXPERIENCE.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 PRICE: $41.00

IRIS ACCESSION NUMBER: EW002249

PUBLICATION DATE: 74

TITLE: AERATION OF ACTIVATED SLUDGE IN SEWAGE TREATMENT.

PERSONAL AUTHOR: GIBBON, D.L.

DESCRIPTOR: *ACTIVATED SLUDGE; *AERATION; DESIGN; EQUIPMENT; *INSTRUCTIONAL MATERIALS; MUNICIPAL WASTES; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *SEWAGE; *SLUDGE; *WASTEWATER TREATMENT; WASTEWATER SLUDGE

DESCRIPTIVE NOTE: 180P. (ISBN 0-08-015156-2)

ABSTRACT: DESCRIBES MODERN DESIGN AND OPERATING EXPERIENCE AT ALL STAGES OF THE AERATION PROCESS, FROM COMPRESSION AND CLEANING OF AIR SUPPLY TO ITS DISTRIBUTION THROUGH SEWAGE TO BE TREATED. THE EXPERIENCE OF 20 MUNICIPAL TREATMENT PLANTS IS TABULATED. INCLUDES RANGES OF EQUIPMENT AND GEOMETRIES AVAILABLE IN DIFFERING APPROACHES TO WATER POLLUTION CONTROL PROBLEMS.

AVAILABILITY: PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523, ($18.00)

IRIS ACCESSION NUMBER: EW002250

PUBLICATION DATE: DEC 73

TITLE: HEAVY METALS IN THE AQUATIC ENVIRONMENT.

PERSONAL AUTHOR: KRENKEL, P.A.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *ENVIRONMENT; *HEAVY METALS; INDUSTRIAL WASTES; METALS; *POLLUTION; *WATER POLLUTION CONTROL; WATER QUALITY

DESCRIPTIVE NOTE: 368P. (ISBN 0-08-018068-X)

ABSTRACT: A COMPILATION OF PAPERS AND DISCUSSIONS PRESENTED AT AN INTERNATIONAL CONFERENCE HELD IN NASHVILLE, TN, IN DECEMBER 1973.

AVAILABILITY: PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD NY 10523 ($62.50)

IRIS ACCESSION NUMBER: EW002251

PUBLICATION DATE: DEC 73

TITLE: MARINE POLLUTION AND MARINE WASTE DISPOSAL.

PERSONAL AUTHOR: PEARSON E. A., AND OTHERS.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *ENVIRONMENT; *MARINE POLLUTION; *OCEANOLOGY; *POLLUTION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 492P. (ISBN 0-08-019730-2)

ABSTRACT: PROCEEDINGS OF THE SECOND INTERNATIONAL CONGRESS, SAN REMO, ITALY, DECEMBER 1973. SPONSORED BY THE INTERNATIONAL ASSOCIATION ON WATER POLLUTION RESEARCH.

AVAILABILITY: PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523 ($75.00)

IRIS ACCESSION NUMBER: EW002252

PUBLICATION DATE: AUG 75

TITLE: DISCHARGE OF SEWAGE FROM SEA OUTFALLS.

PERSONAL AUTHOR: GAMESON, A.L.

DESCRIPTOR: *AQUATIC MICROBIOLOGY; *BEACHES; ENVIRONMENT; ECOLOGY; *INSTRUCTIONAL MATERIALS; MICROBIOLOGY; *MARINE POLLUTION; *OCEANOLOGY; *OCEAN OUTFALLS; *SEWAGE; STANDARDS; *WATER QUALITY; *WATER ANALYSIS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 464P. (ISBN 0-08-018302-6)

ABSTRACT: EXAMINES MICROBIAL STANDARDS FOR BATHING BEACHES, TREATMENT OF SEWAGE BEFORE DISCHARGE INTO SEA, AND THE VARIOUS MECHANISMS TO WHICH MICROBIAL MORTALITY IN THE MARINE ENVIRONMENT HAS BEEN ATTRIBUTED.

AVAILABILITY: PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523 ($75.00)

IRIS ACCESSION NUMBER: EW002253

PUBLICATION DATE: SEPT 73

TITLE: INSTRUMENTATION CONTROL AND AUTOMATION FOR WASTEWATER TREATMENT SYSTEMS.

PERSONAL AUTHOR: ANDREWS, J.F., AND OTHERS.

DESCRIPTOR: *AUTOMATION; *COMPUTERIZED SYSTEMS; *CONFERENCE PROCEEDINGS; *INSTRUMENTATION; INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 570P. (ISBN 0-08-017976-2)

ABSTRACT: PROCEEDINGS OF THE CONFERENCE HELD IN LONDON SEPTEMBER 1973, AND SPONSORED BY THE INTERNATIONAL ASSOCIATION OF WATER POLLUTION RESEARCH.

AVAILABILITY: PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523 ($77.50)

IRIS ACCESSION NUMBER: EW002262

PUBLICATION DATE: 72

TITLE: LAKES-AGING AND POLLUTION.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ECOLOGY; ENVIRONMENT; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LAKES; *LIMNOLOGY

DESCRIPTIVE NOTE: 16MM, 15 MIN., COLOR.

ABSTRACT: PORTRAYS THE AGING PROCESS OF LAKES. INCLUDED ARE THE CHANGES IN PLANT AND ANIMAL POPULATIONS AND THE IMPACT OF MAN ON THE AGING PROCESS. SELECTED TO BE SHOWN AT THE 1972 AMERICAN FILM FESTIVAL.

AVAILABILITY: STATE UNIVERSITY OF NEW YORK, COLLEGE OF ENVIRONMENTAL SCIENCE 8 FORESTRY FILM LIBRARY, SYRACUSE, NY 13210 (RENTAL : $5.00)

IRIS ACCESSION NUMBER: EW002263

TITLE: MAN AND HIS NATURAL ENVIRONMENT-THE CREEK.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ENVIRONMENT; *ECOLOGY; FILMS; *INSTRUCTIONAL FILMS; NATURAL RESOURCES; POST SECONDARY EDUCATION; *STREAMS; *WATER POLLUTION CONTROL; *WATER RESOURCES

DESCRIPTIVE NOTE: 16MM, 26 MIN., COLOR.

ABSTRACT: SHOWS IN DETAIL THE PHYSICAL STRUCTURE AND LIFE-FORMS OF THE COMPLEX CREEK COMMUNITY. DISCUSSES THE NEED FOR CHANGING MAN'S ATTITUDE TOWARD HIS ENVIRONMENT AND POSSIBLE TECHNIQUES FOR ACCOMPLISHING THIS TASK. THE CENTRAL THEME IS GETTING INVOLVED IN AN ENVIRONMENTAL TASK. NARRATED BY LEIF ERIKSON.

AVAILABILITY: STATE UNIVERSITY OF NEW YORK, COLLEGE OF ENVIRONMENTAL SCIENCE 8 FORESTRY FILM LIBRARY, SYRACUSE, NY 13210 (RENTAL: $5.00)

IRIS ACCESSION NUMBER: EW002264

TITLE: POLLUTION: A MATTER OF CHOICE.

DESCRIPTOR: *AUDIOVISUAL AIDS; ECOLOGY; *ENVIRONMENT; *FILMS; *INSTRUCTIONAL FILMS; MARINE POLLUTION; *MAINE; *POLLUTION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 16MM, 53 MIN., COLOR, 2 REELS.

ABSTRACT: CLARIFIES WHY OUR NATURAL ENVIRONMENT IS BEING THREATENED BY TECHNOLOGY. ATTEMPTS TO ANSWER THE QUESTION OF WHAT KIND OF AN ENVIRONMENT CAN BE MANAGED IN A TECHNOLOGICAL SOCIETY BY EXAMINING THE CONFLICTS BETWEEN OUR NEEDS AND DESIRES, AND THE METHODS OF ACHIEVING THEM. SPECIFICALLY TREATS MACHIASPORT, MAINE WHERE THE NATURAL BEAUTY OF THE AREA, VALUED BY TOURISTS AND INHABITANTS, IS SOUGHT BY OIL COMPANIES AS A PRIME AREA FOR OFF-SHORE DRILLING AND A PERFECT PORT FOR REFINERIES. IT RECORDS THE DILEMMA OF THE CITIZENS. HOSTED BY HUGH DOWNS.

AVAILABILITY: STATE UNIVERSITY OF NEW YORK, COLLEGE OF ENVIRONMENTAL SCIENCE AND FORESTRY FILM LIBRARY, SYRACUSE, NY 13210 (RENTAL: $5.00)

IRIS ACCESSION NUMBER: EW002265

PUBLICATION DATE: 71

TITLE: PUBLIC POISON.

DESCRIPTOR: AUDIOVISUAL AIDS; CADMIUM; *FILMS; *HEAVY METALS; LEAD; MERCURY; *METALS; POLLUTION; *POLLUTANTS; *PUBLIC HEALTH

DESCRIPTIVE NOTE: 16MM, 60 MIN., COLOR

ABSTRACT: DOCUMENTARY ON THE HEAVY METAL POLLUTION FACING US TODAY. GOES INTO DETAIL ON THE DANGERS OF POISONING BY MERCURY, LEAD AND CADMIUM. PRESENTED AS A WARNING TO ALERT THE PUBLIC TO THE INCREASING DANGER OF METALS TO THE HEALTH AND WELFARE OF ALL INDIVIDUALS.

AVAILABILITY: TIME LIFE MULTIMEDIA, 100 EISENHOWER DRIVE, PARAMUS, NJ 07652 PRICE: $550.00

IRIS ACCESSION NUMBER: EW002276

PUBLICATION DATE: 71

TITLE: ENVIRONMENTAL DEGRADATION: A SELECTED BIBLIOGRAPHY.

PERSONAL AUTHOR: SANGSTER, R. P.

DESCRIPTOR: *BIBLIOGRAPHIES; *ENVIRONMENT; *NATURAL RESOURCES; *POLLUTION; WATER POLLUTION CONTROL; *WORLD PROBLEMS

ABSTRACT: AN ENVIRONMENTAL BIBLIOGRAPHY.

AVAILABILITY: COUNCIL OF PLANNING LIBRARIANS, BOX 229, MONTICELLO IL 61856 PRICE: $1.00

IRIS ACCESSION NUMBER: EW002277

PUBLICATION DATE: 70

TITLE: ENVIRONMENTAL PLANNING: A SELECTED ANNOTATED BIBLIOGRAPHY.

PERSONAL AUTHOR: MESHENBERG, M. J.

DESCRIPTOR: *BIBLIOGRAPHIES; *ENVIRONMENT; *ENVIRONMENTAL CONTROL; *PLANNING.

ABSTRACT: AN ENVIRONMENTAL BIBLIOGRAPHY.

AVAILABILITY: AMERICAN SOCIETY OF PLANNING OFFICIALS, CHICAGO, ILL. 60607 PRICE: $7.00

IRIS ACCESSION NUMBER: EW002287

PUBLICATION DATE: 45

TITLE: ADJUSTING AND CHECKING THE EXPANSION VALVE.

DESCRIPTOR: *AUDIOVISUAL AIDS; AIR CONDITIONING; *EXPANSION VALVES; FILMS; *HEATING; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; PLUMBING; POST SECONDARY EDUCATION; *VALVES

DESCRIPTIVE NOTE: (TITLE NO. 115850) (AGENCY NO. OE 444) 16MM, 21 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: DESCRIBES THE DESIGN AND OPERATION OF THE BELLOWS TYPE AND THE DIAPHRAGM TYPE AUTOMATIC EXPANSION VALVES. EXPLAINS HOW TO ADJUST, CHECK AND SERVICE THE BELLOWS TYPE VALVE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL PRICE: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002288

PUBLICATION DATE: 45

TITLE: ADJUSTING AND REPAIRING THE THERMO EXPANSION VALVE.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AIR CONDITIONING; *EXPANSION VALVES; FILMS; *HEATING; *INSTRUCTIONAL FILMS; *MAINTENANCE; *PLUMBING; POST SECONDARY EDUCATION; *REFRIGERATION; *VALVES

DESCRIPTIVE NOTE: (TITLE NO. 115900) (AGENCY NO. OE 448) 16MM, 12 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: EXPLAINS THE THEORY OF MULTIPLE REFRIGERATION SYSTEMS. TELLS HOW TO TEST AND ADJUST THE THERMO EXPANSION VALVE, HOW TO RECOGNIZE SYMPTOMS OF TROUBLE IN THE VALVE AND HOW TO SERVICE THE VALVE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL PRICE: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002289

PUBLICATION DATE: 45

TITLE: ADJUSTING COMMERCIAL THERMOSTATIC CONTROLS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AIR CONDITIONING; FILMS; *HEATING; *INSTRUCTIONAL FILMS; *MAINTENANCE; *PLUMBING; POST SECONDARY EDUCATION; *THERMOSTATIC CONROLS; *VALVES

DESCRIPTIVE NOTE: (TITLE NO. 116050) (AGENCY NO. OE 450) 16MM, 12 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: DEMONSTRATES HOW TO ADJUST THE THERMOSTATIC MOTOR CONTROL, THE THERMO TWO-TEMPERATURE VALVE AND THE THERMOWATER VALVE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL PRICE: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002290

PUBLICATION DATE: 45

TITLE: ADJUSTING PRESSURE ACTUATED TEMPERATURE CONTROL DEVICES.

DESCRIPTOR: *AUDIOVISUAL AIDS; AIR CONDITIONING; FILMS;

*HEATING; *INSTRUCTIONAL FILMS; *MAINTENANCE; POST SECONDARY EDUCATION; *PLUMBING; *TEMPERATURE; *THERMOSTATIC CONTROLS; *VALVES

DESCRIPTIVE NOTE: (TITLE NO. 116100) (AGENCY NO. OE 449) 16MM, 15 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: DESCRIBES THE PURPOSE OF PRESSURE ACTUATED TEMPERATURE CONTROL DEVICES. EXPLAINS HOW TO ADJUST THE PRESSURE ACTUATED MOTOR CONTROL AND HOW TO ADJUST THE METERING TYPE AND SNAP-ACTION TWO-TEMPERATURE VALVES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL PRICE: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002293

PUBLICATION DATE: 72

TITLE: AIR WE BREATHE IN INDUSTRIAL ENVIRONMENTS.

DESCRIPTOR: ACCIDENT PREVENTION; *AIR POLLUTION; *AUDIOVISUAL AIDS; FILMS; HEALTH; *INDUSTRIAL HEALTH; *INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; INDUSTRY; *POLLUTANTS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 003567) 16MM, OPTICAL SOUND, COLOR.

ABSTRACT: DISCUSSES THE COMPOSITION AND IMPORTANCE OF AIR IN RELATION TO VARIOUS WORKING ENVIRONMENTS. DESCRIBES INDUSTRIAL HEALTH (BREATHING) HAZARDS ENCOUNTERED AND THE IMPORTANCE OF PROTECTING WORKERS BY USING PROTECTIVE EQUIPMENT AND PROPER VENTILATION.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $92.75)

INSTITUTION NAME: U.S. BUREAU OF MINES.

IRIS ACCESSION NUMBER: EW002294

PUBLICATION DATE: 44

TITLE: ALIGNING AND INSTALLING AUXILIARY MACHINERY.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CONSTRUCTION; *EQUIPMENT; FILMS; *INSTALLATION; *INSTRUCTIONAL FILMS; *MACHINERY; *MOTORS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 126815) (AGENCY NO. OE 096) 16MM, 17 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: SHOWS HOW TO LAY OUT FOUNDATIONS FOR MACHINERY INSTALLATION, DRILL BOLT HOLES, ESTABLISH CENTERS FOR HOLES FOR DRILLING, AND ALIGN MACHINES ACCURATELY ON FOUNDATIONS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL PRICE: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002296

PUBLICATION DATE: 53

TITLE: APPRAISING SOILS FOR SOIL ABSORPTION SYSTEMS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *CONSTRUCTION; *DRAIN FIELDS; FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SEPTIC TANKS; *SOIL ABSORPTION

DESCRIPTIVE NOTE: (TITLE NO. 000358) (AGENCY NO. M-50B) 16MM, 18 MIN., OPTICAL SOUND, BLACK AND WHITE.

ABSTRACT: EXPLAINS THE THEORY OF SOIL ABSORPTION, DEMONSTRATES CHARACTERISTICS AND TESTS, AND DISCUSSES RELATIONSHIP OF TEST FINDINGS TO THE SIZE AND CONSTRUCTION OF THE TILE ABSORPTION FIELD. USER SHOULD SUPPLEMENT FILM WITH CURRENT DATA.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON,D.C. 20409

INSTITUTION NAME: U.S. PUBLIC HEALTH SERVICE.

IRIS ACCESSION NUMBER: EW002298

PUBLICATION DATE: 73

TITLE: ARTIFICIAL RESPIRATION.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ACCIDENT PREVENTION; *ARTIFICIAL RESPIRATION; FILMS; *INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 001994) (AGENCY NO. M-798) 16MM, 16 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: TEACHES THE INDIVIDUAL HOW TO TAKE CARE OF MANY OF HIS MEDICAL AND HEALTH NEEDS IN TIME OF DISASTER WHEN MEDICAL ASSISTANCE MIGHT NOT BE READILY AVAILABLE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $52.25)

INSTITUTION NAME: U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE.

IRIS ACCESSION NUMBER: EW002299

PUBLICATION DATE: 62

TITLE: AUTOMATION IN CLINICAL CHEMISTRY; PART 1: HOW IT WORKS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AUTOANALYZERS; *CHEMISTRY; *CHEMICAL ANALYSIS; FILMS; *INSTRUMENTATION; *INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 003720) (AGENCY NO. FTA-6-61) 16MM, 20 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: EXPLAINS HOW THE AUTOANALYZER MEASURES AND COMPARES ON A MOVING GRAPH THE CONCENTRATION OF A GIVEN SUBSTANCE OF THE SAME SUBSTANCE IN A STANDARD CONTROL SOLUTION.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $116.00)

INSTITUTION NAME: U.S. NAVY.

IRIS ACCESSION NUMBER: EW002300

PUBLICATION DATE: 62

TITLE: AUTOMATION IN CLINICAL CHEMISTRY; PART 2: ASSEMBLY AND OPERATION OF EQUIPMENT.

DESCRIPTOR: *AUDIOVISUAL AIDS; *AUTOANALYZERS; *CHEMISTRY; *CHEMICAL ANALYSIS; FILMS; *INSTRUMENTATION; *INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 003721) (AGENCY NO. FTA-7-61) 16MM, 35 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: OFFERS SOME PRACTICAL DETAILS OF SETTING UP THE AUTOANALYZER AND RUNNING IT.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $203.00)

INSTITUTION NAME: U.S. NAVY.

IRIS ACCESSION NUMBER: EW002301

PUBLICATION DATE: 43

TITLE: BARS PUNCHES AND DRIFTS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BARS; *DRIFTS; *EQUIPMENT; FILMS; *HAND TOOLS; *INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PUNCHES

DESCRIPTIVE NOTE: (TITLE NO. 161100) (AGENCY NO. TF09-2030) 16MM, 15 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: EXPLAINS THE SPECIFIC PURPOSES, CORRECT USES, AND COMMON MISUSES OFBARS, PUNCHES AND DRIFTS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $49.50)

IRIS ACCESSION NUMBER: EW002302

PUBLICATION DATE: 51

TITLE: BASIC PRINCIPLES OF THE ANALYTICAL BALANCE.

DESCRIPTOR: *ANALYTICAL BALANCES; *AUDIOVISUAL AIDS; FILMS; *INSTRUMENTATION; *INSTRUCTIONAL FILMS; INSTRUCTIONAL MATERIALS; *LABORATORY EQUIPMENT; *LABORATORY PROCEDURES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 000359) (AGENCY NO. M-0012) 16MM, 19 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: EXPLAINS THE USE OF THE ANALYTICAL BALANCE, ITS SENSITIVITY, CALIBRATING WEIGHTS, WEIGHING AN OBJECT, AND WEIGHING A PREDETERMINED AMOUNT OF MATERIAL.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $62.75)

INSTITUTION NAME: U.S. PUBLIC HEALTH SERVICE.

IRIS ACCESSION NUMBER: EW002303

PUBLICATION DATE: 44

TITLE: BEARING DISASSEMBLY AND INSPECTION.

DESCRIPTOR: AUDIOVISUAL AIDS; *BEARINGS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 000360), (AGENCY NO. MN02364C), 16MM, 14 MIN., OPTICAL SOUND, COLOR

ABSTRACT: DEMONSTRATES HOW TO DISASSEMBLE MAIN BEARINGS, INSPECT, TAKE READINGS ON THE BEARING SHELL, AND USE CARE IN HANDLING PARTS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($46.25)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002304
PUBLICATION DATE: 43

TITLE: BEARING REASSEMBLY.

DESCRIPTOR: AUDIOVISUAL AIDS; *BEARINGS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 00361), (AGENCY NO. MN02364D), 16MM, 11 MIN., OPTICAL SOUND, BLACK AND WHITE

ABSTRACT: DEMONSTRATES HOW TO ROLL THE BEARING SHELL BACK INTO PLACE. TELLS HOW TO INSTALL CAP, WEDGE BLOCKS, AND WEDGE SHOE AND CONNECT THE LUBE OIL LINE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($36.25)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002305

PUBLICATION DATE: 43

TITLE: BEARING REMOVAL AND INSPECTION.

DESCRIPTOR: AUDIOVISUAL AIDS; *BEARINGS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 000362), (AGENCY NO. MN00209D), 16MM, 17 MIN., OPTICAL SOUND, BLACK AND WHITE

ABSTRACT: DEMONSTRATES HOW TO DISASSEMBLE THE MAIN BEARING. TELLS HOW TO INSPECT, CLEAN, AND REPLACE BEARING SHELLS AND REASSEMBLE THE BEARING.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($56.00)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002306

PUBLICATION DATE: 45

TITLE: BEARINGS.

DESCRIPTOR: AUDIOVISUAL AIDS; *BEARINGS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 165446), (AGENCY NO. MN03708C), 16MM, 9 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: TELLS HOW TO REMOVE, INSPECT, AND INSTALL MAIN BEARING CAP, LOWER BEARING SHELL, AND UPPER BEARING SHELLS.
AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($29.75)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002307

PUBLICATION DATE: 65

TITLE: BLEEDING AND BANDAGING.

DESCRIPTOR: AUDIOVISUAL AIDS; DISASTERS; *FILMS; *FIRST AID; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MEDICAL EDUCATION; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 179790), (AGENCY NO. M-0799), 16MM, 28 MIN., OPTICAL SOUND, COLOR

ABSTRACT: RESTRICTED TO PROFESSIONAL AUDIENCES-RESIDENTS, OTHER MEDICAL PROFESSIONAL PERSONNEL, AND RESEARCH AND SOCIAL WORKERS IN THE FIELD OF MEDICINE. CLEARED FOR USE ON EDUCATIONAL CLOSED CIRCUIT TELEVISION ONLY. TEACHES THE INDIVIDUAL HOW TO TAKE CARE OF HIS MEDICAL AND HEALTH NEEDS IN TIME OF DISASTER WHEN MEDICAL ASSISTANCE MIGHT NOT BE READILY AVAILABLE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($162.50)

IRIS ACCESSION NUMBER: EW002308

PUBLICATION DATE: 66

TITLE: BODY MECHANICS.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MANUAL LABOR; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 181427), (AGENCY NO. M-1336), 16MM, 9 MIN., OPTICAL SOUND, COLOR

ABSTRACT: SHOWS DO'S AND DONT'S OF LIFTING TECHNIQUES USED BY PHYSICAL THERAPISTS. EMPHASIZES USE OF PROPER BODY MECHANICS AS A PROTECTION TO BOTH PATIENT AND THERAPIST.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($52.25)

IRIS ACCESSION NUMBER: EW002309
PUBLICATION DATE: 70

TITLE: BOILERS AND THEIR OPERATION, ALKALINITY TEST.

DESCRIPTOR: *ALKALINITY; AUDIOVISUAL AIDS; *BOILERS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *WATER ANALYSIS

DESCRIPTIVE NOTE: (TITLE NO. 181608), (AGENCY NO. MN0922312), 16MM, 13 MIN., OPTICAL SOUND, COLOR

ABSTRACT: DESCRIBES THE PROCEDURE FOR PREPARING THE CHEMICALS AND CONDUCTING THE ALKALINITY TEST.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($75.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002310

PUBLICATION DATE: 71

TITLE: BOILERS AND THEIR OPERATION. BOILER WATER SAMPLING.

DESCRIPTOR: AUDIOVISUAL AIDS; *BOILERS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; POST SECONDARY EDUCATION; *WATER ANALYSIS
DESCRIPTIVE NOTE: (TITLE NO. 181620), (AGENCY NO. MN09223R), 16MM, 8 MIN., OPTICAL SOUND, COLOR

ABSTRACT: SHOWS THE MANNER IN WHICH BOILER WATER SAMPLES ARE OBTAINED.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($46.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002311

PUBLICATION DATE: 70

TITLE: BOILERS AND THEIR OPERATION. PHOSPHATE TEST.

DESCRIPTOR: AUDIOVISUAL AIDS; *BOILERS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; POST SECONDARY EDUCATION; *PHOSPHATES; *TAYLOR COMPARATOR KIT; *WATER ANALYSIS

DESCRIPTIVE NOTE: (TITLE NO. 181622), (AGENCY NO. MN09223M3), 16MM, 13 MIN., OPTICAL SOUND, COLOR

ABSTRACT: DEMONSTRATES THE USE OF THE TAYLOR COMPARATOR KIT IN PERFORMING THE PHOSPHATE TEST. ALSO SHOWS HOW TO PREPARE THE BOILER WATER.
AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($75.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002312

PUBLICATION DATE: 61

TITLE: BREATH IN TIME.

DESCRIPTOR: *ARTIFICIAL RESPIRATION; AUDIOVISUAL AIDS; *ACCIDENT PREVENTION; *FILMS; *FIRST AID; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS

DESCRIPTIVE NOTE: (TITLE NO. 003566), 16MM, 27 MIN., OPTICAL SOUND, COLOR

ABSTRACT: SHOWS MANY SITUATIONS WHERE THE PROMPT APPLICATION OF ARTIFICIAL RESPIRATION, MOUTH-TO-MOUTH, HOLGER-NIELSON, SHAEFER AND SYLVESTER ARE DEMONSTRATED, WITH EMPHASIS ON THE MOUTH-TO-MOUTH METHOD.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($156.50)

INSTITUTION NAME: U.S. BUREAU OF MINES.

IRIS ACCESSION NUMBER: EW002313

PUBLICATION DATE: 41

TITLE: CARE AND MAINTENANCE OF TAPERED ROLLER BEARINGS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BEARINGS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 200185), (AGENCY NO. TF11-0257), 16MM, 31 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: EXPLAINS HOW TO DISASSEMBLE, CLEAN, INSPECT, LUBRICATE, AND REASSEMBLE TAPERED ROLLER BEARINGS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409

IRIS ACCESSION NUMBER: EW002314

PUBLICATION DATE: 65

TITLE: CARPENTRY. PART 1: MEASURING MARKING AND LEVELING, TOOLS.

DESCRIPTOR: AUDIOVISUAL AIDS; *CARPENTRY; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *SHOP; *TOOLS

DESCRIPTIVE NOTE: (TITLE NO. 202560), (AGENCY NO. TF05-3548), 16MM, 18 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: TEACHES THE USE, CAPABILITIES, AND CARE AND MAINTENANCE OF THE CARPENTRY HAND TOOLS COMMONLY USED FOR MEASURING, MARKING AND LEVELING.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($59.50)

IRIS ACCESSION NUMBER: EW002315

PUBLICATION DATE: 65

TITLE: CARPENTRY. PART 2: CHOPPING AND DRIVING TOOLS.

DESCRIPTOR: AUDIOVISUAL AIDS; *CARPENTRY; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *SHOP; *TOOLS

DESCRIPTIVE NOTE: (TITLE NO. 001506), (AGENCY NO. TF05-3549), 16MM, 14 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: TEACHES THE USE, CAPABILITIES, CARE AND MAINTENANCE, AND SAFETY MEASURES PERTAINING TO THE CARPENTRY HAND AND POWER TOOLS USED FOR CHOPPING AND DRIVING.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409

IRIS ACCESSION NUMBER: EW002316

PUBLICATION DATE: 65

TITLE: CARPENTRY. PART 3: SAWING AND BORING TOOLS.

DESCRIPTOR: AUDIOVISUAL AIDS; BORING; *CARPENTRY; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *SAWING; *SHOP; *TOOLS

DESCRIPTIVE NOTE: (TITLE NO. 202562), (AGENCY NO. TF05-3550), 16MM, 33 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: TEACHES USE, CAPABILITIES, CARE AND MAINTENANCE, AND SAFETY MEASURES PERTAINING TO THE HAND POWER TOOLS COMMONLY USED IN CARPENTRY FOR SAWING AND BORING.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($109.00)

IRIS ACCESSION NUMBER: EW002317

PUBLICATION DATE: 65

TITLE: CARPENTRY. PART 4: PLANNING AND CHISELING TOOLS.

DESCRIPTOR: AUDIOVISUAL AIDS; *CARPENTRY; *CHISELS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; PLANES; SHOP; TOOLS

DESCRIPTIVE NOTE: (TITLE NO. 202563), (AGENCY NO. TF05-3551), 16MM, 11 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: FEATURES USE OF BENCH PLANE AND FRAMING CHISEL. DEMONSTRATION OF CLEANING, SHARPENING, SMOOTHING, OILING AND PROPER STORAGE ARE SHOWN.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($36.25)

IRIS ACCESSION NUMBER: EW002318

PUBLICATION DATE: 69

TITLE: CENTRIFUGAL AIR CONDITIONING EQUIPMENT. PRINCIPLES AND OPERATIONS.

DESCRIPTOR: AUDIOVISUAL AIDS; FILMS; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 206436) (AGENCY NO. MN10344A) 16MM, 20 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: DESCRIBES OPERATING PRINCIPLES OF CENTRIFUGAL AIR CONDITIONING EQUIPMENT.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $116.00)

IRIS ACCESSION NUMBER: EW002319

PUBLICATION DATE: 43

TITLE: CHARGING STORAGE BATTERIES.

DESCRIPTOR: AUDIOVISUAL AIDS; FILMS; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 210050) (AGENCY NO. TF11-1219) 16MM, 16 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: EXPLAINS THE CHARGING, CARE, AND PREPARATION OF STORAGE BATTERIES, AND CONSTANT VOLTAGE METHODS AND MODIFICATIONS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $52.75)

IRIS ACCESSION NUMBER: EW002320

PUBLICATION DATE: 45

TITLE: CHECKING AND REPLACING A FLOAT VALVE.

DESCRIPTOR: AUDIOVISUAL AIDS; FILMS; INSTRUCTIONAL FILMS; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 210950) (AGENCY NO. OE445) 16MM, 19 MIN., OPTICAL SOUND, BLACK 8 WHITE, PURCHASE PRICE: $33.75

ABSTRACT: DESCRIBES THE FUNCTIONS OF TWO BASIC TYPES OF FLOAT VALVES HIGH-SIDE FLOAT AND LOW-SIDE FLOAT. EXPLAINS HOW TO CORRECT TROUBLES IN BOTH TYPES AND HOW TO REPLACE HIGH-SIDE FLOAT.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL PRICE: $10.00)

IRIS ACCESSION NUMBER: EW002322

PUBLICATION DATE: 45

TITLE: CHECKING THE SYSTEM. PART 2: TROUBLE SHOOTING.

DESCRIPTOR: AUDIOVISUAL AIDS; *COOLING; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *REFRIGERATION; *TROUBLESHOOTING

DESCRIPTIVE NOTE: (TITLE NO 211101), (AGENCY NO. OE439), 16MM, 17 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: EXPLAINS HOW TO DETERMINE CAUSES OF SEVERAL COMMON REFRIGERATION TROUBLES, SUCH AS 'UNIT WILL NOT RUN', 'UNIT RUNS CONTINUOUSLY', 'IMPROPER REFRIGERATION OF FOOD, BUT UNIT FREEZES ICE CUBES'.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002323

PUBLICATION DATE: 61

TITLE: CHEMICAL LAB SAFETY.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LABORATORY SAFETY; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 211850), (AGENCY NO. M-0445), 16MM, 25 MIN., OPTICAL SOUND, COLOR

ABSTRACT: SEVERAL SIMULATED CHEMICAL LAB ACCIDENTS ARE DEPICTED ALONG WITH SUGGESTIONS FOR THEIR PREVENTION AND TIPS FOR GENERAL SAFETY PRECAUTIONS IN ROUTINE LAB ACTIVITIES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL: $12.50)

IRIS ACCESSION NUMBER: EW002325

PUBLICATION DATE: 43

TITLE: CHISELS.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *CHISELS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *TOOLS

DESCRIPTIVE NOTE: (TITLE NO. 217550), (AGENCY NO. TF09-2028), 16MM, 12 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: SHOWS THE VARIOUS TYPES OF COLD CHISELS, AND DEMONSTRATES PROPER TECHNIQUES AND SAFETY PRECAUTIONS TO BE OBSERVED IN USING THEM.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($39.50)

IRIS ACCESSION NUMBER: EW002326

PUBLICATION DATE: 66

TITLE: COLOR FOR SAFETY.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *EQUIPMENT; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PIPES; *SAFETY; TOOLS

DESCRIPTIVE NOTE: (TITLE NO. 003562), 16MM, 22 MIN., OPTICAL SOUND, COLOR

ABSTRACT: EMPHASIZES THE IMPORTANCE OF COLOR IN PREVENTING ACCIDENTS IN THE MINERAL INDUSTRIES. THE CORRECT COLOR CODING AND LABELING OF FUEL, GAS AND CHEMICAL PIPES, AND CYLINDERS TO PREVENT MISUSE OF CONTENTS IS POINTED OUT. SHOWS HOW TOOLS, EQUIPMENT, AND PLANT FACILITIES ARE COLOR CODED FOR ACCURATE IDENTIFICATION.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($127.50)

INSTITUTION NAME: U.S. BUREAU OF MINES.

IRIS ACCESSION NUMBER: EW002328
PUBLICATION DATE: 73

TITLE: CONSTRUCTION SAFETY AND HEALTH TRAINING COURSE.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *CONSTRUCTION; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *TOOLS

DESCRIPTIVE NOTE: (TITLE NO. 002057), 466, 2X2 SLIDES, SILENT, COLOR

ABSTRACT: IMPROVES THE ABILITY TO RECOGNIZE, AVOID AND PREVENT UNSAFE WORKING CONDITIONS ON A CONSTRUCTION JOB. THESE TRAINING MATERIALS COVER ALL PHASES OF CONSTRUCTION SAFETY FROM PRE-JOB PLANNING TO THE FINISHED JOB. CAREFUL STUDY IS GIVEN TO BUILT-IN HAZARDS IN THE USE OF MATERIAL-HANDLING LOADER, BULLDOZERS AND TRUCKS. THE DANGERS PRESENT IN THE USE OF ARC AND GAS WELDING, CUTTING EQUIPMENT AND FLAMMABLE FUELS AND LIQUIDS ARE EXAMINED AND GIVEN SPECIAL ATTENTION. ALSO INCLUDED AND THOROUGHLY DISCUSSED ARE PERSONAL PROTECTIVE EQUIPMENT, HAND TOOLS AND ACCESSORIES FOR MAJOR POWERED EQUIP.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($103.50)

INSTITUTION NAME: U.S. DEPARTMENT OF LABOR.

IRIS ACCESSION NUMBER: EW002330

PUBLICATION DATE: 69

TITLE: CONVEYOR BELTS. BE CAREFUL.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *CONVEYOR BELTS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; MINING; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO 003560), 16MM, 15 MIN., OPTICAL SOUND, COLOR

ABSTRACT: FIVE OF THE MOST COMMON ACCIDENTS THAT CAN OCCUR AROUND BELT CONVEYORS IN THE MINERAL INDUSTRY ARE VISUALLY DEPICTED. RECOMMENDATIONS FOR THEIR PREVENTION ARE OUTLINED AND THE NEED FOR SAFE MINING EQUIPMENT AND FACILITIES IS STRESSED.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($87.00)

INSTITUTION NAME: U.S. BUREAU OF MINES.

IRIS ACCESSION NUMBER: EW002331
PUBLICATION DATE: 45

TITLE: COOLING SYSTEM AND FUEL SYSTEM.

DESCRIPTOR: AUDIOVISUAL AIDS; *COOLING SYSTEMS; *FILMS; *FUEL SYSTEMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 243425), (AGENCY NO. OE464), 16MM, 22 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: EXPLAINS HOW TO CHECK FOR LEAKS IN THE COOLING SYSTEM AND CHECK THE FAN AND WATER PUMP. DESCRIBES MECHANICAL OPERATION OF THE CARBURETOR, FILTER, AND VENTS, FUEL PUMP, AND LEAKAGE IN THE FUEL SYSTEM.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002332

PUBLICATION DATE: 73

TITLE: COUNTING WHAT COUNTS. WORK COUNTS.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *JOB ANALYSIS; *MANAGEMENT; POST SECONDARY EDUCATION; *SUPERVISION

DESCRIPTIVE NOTE: (TITLE NO. 003572), (AGENCY NO. MF-61-5721), 16MM, 10 MIN., OPTICAL SOUND, COLOR

ABSTRACT: ILLUSTRATES THROUGH ANIMATION THE MEANING, TECHNIQUES, AND USES OF WORK COUNT AS A SCORING SYSTEM FOR THE SUPERVISOR'S EVALUATION OF HIS EMPLOYEES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($58.00)

IRIS ACCESSION NUMBER: EW002333

PUBLICATION DATE: 50

TITLE: COVERING HOT AND COLD PIPES.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *INSULATION; *PIPES

DESCRIPTIVE NOTE: (TITLE NO. 247750), (AGENCY NO. OE109), 16MM, 22 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: DESCRIBES MATERIALS USED TO INSULATE HOT AND COLD PIPES. EXPLAINS HOW TO INSULATE STRAIGHT PIPE AND HOW TO COVER COUPLING, BEND, ELBOW, VALVE AND FLANGE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($72.50)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002335

PUBLICATION DATE: 43

TITLE: CYLINDER HEAD.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENGINES; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO 000569), (AGENCY NO. MN02364H), 16MM, 16 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: DEMONSTRATES HOW TO INSPECT AND RECONDITION THE CYLINDER HEAD.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($52.75)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002336

PUBLICATION DATE: 43

TITLE: CYLINDER HEAD AND PISTON.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENGINES; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 000570), (AGENCY NO. MN02364E), 16MM, 20 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: SHOWS HOW TO DISASSEMBLE THE CYLINDER HEAD AND PISTON. TELLS HOW TO REMOVE VALVES AND CROSSHEADS AND SHOWS OTHER USAGE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($66.00)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002337

PUBLICATION DATE: 45

TITLE: CYLINDER HEAD REMOVAL.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENGINES; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 000571), (AGENCY NO. MN03708A), 16MM, 22 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: SHOWS HOW TO REMOVE PISTON OILING COOLING TUBES, CYLINDER HEAD COVERS, TEST VALVE, ROCKER ARM ASSEMBLIES, TEST VALVES, AND PISTON COOLING OIL LINES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($72.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002338

PUBLICATION DATE: 45

TITLE: DC MOTOR. PART 1: MECHANICAL OVERHAUL.

DESCRIPTOR: AUDIOVISUAL AIDS; *ELECTRIC MOTORS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *MOTORS

DESCRIPTIVE NOTE: (TITLE NO. 259917), (AGENCY NO. OE 392), 16MM, 20 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: TELLS HOW TO TEST FOR ELECTRICAL AND MECHANICAL FAULTS, DISMANTLE DC MOTOR, TURN THE COMMUTATOR, REPAIR AND REPLACE FIELD COILS, ASSEMBLE THE MOTOR, AND ADJUST AND MAKE FINAL TESTS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($66.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002339

PUBLICATION DATE: 45

TITLE: DC MOTOR. PART 2: REWINDING.

DESCRIPTOR: AUDIOVISUAL AIDS; *ELECTRICAL EQUIPMENT; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MOTORS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 259918), (AGENCY NO. OE 393), 16MM, 37 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: TELLS HOW TO DISMATLE AND CLEAN AN ARMATURE CORE, DETERMINE COMMUTATOR PITCH, REINSULATE THE CORE, INSERT COILS, BAND AN ARMATURE, SHAPE COIL ENDS, LAY IN THE SOLDER LEADS, BALANCE AND IMPREGNATE THE ARMATURE, AND TURN A COMMUTATOR.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE

SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($122.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002340

PUBLICATION DATE: 67

TITLE: DESALTING THE SEAS.

DESCRIPTOR: AUDIOVISUAL AIDS; *DESALINATION; *ENERGY; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *OCEANOLOGY; *WATER QUALITY; *WATER RESOURCES

DESCRIPTIVE NOTE: (TITLE NO. 001533), 16MM, 17 MIN., OPTICAL SOUND, COLOR

ABSTRACT: DESCRIBES THE VARIOUS METHODS OF PURIFYING SALINE WATERS THROUGH THE USE OF NUCLEAR ENERGY, WITH PARTICULAR EMPHASIS ON LARGE-SCALE DUAL PURPOSE NUCLEAR-ELECTRIC DESALTING PLANTS WHICH PURIFY WATER AND PRODUCE LARGE AMOUNTS OF ELECTRIC POWER SIMULTANEOUSLY.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($98.50)

INSTITUTION NAME: U.S. ATOMIC ENERGY COMMISSION.

IRIS ACCESSION NUMBER: EW002341

PUBLICATION DATE: 71

TITLE: DESIGN AND CONTROL OF CONCRETE MIXES.

DESCRIPTOR: AUDIOVISUAL AIDS; *CONCRETE; *CONSTRUCTION; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *PLANT CONSTRUCTION

DESCRIPTIVE NOTE: (TITLE NO. 002063), 16MM, 35 MIN., OPTICAL SOUND, COLOR

ABSTRACT: CONCERNS QUALITY CONTROL OF CONCRETE MIXES AT THE POINT OF USE AND DEMONSTRATES THE EFFECTS OF VARIOUS CONDITIONS AND MATERIALS ON THE QUALITY AND DURABILITY OF FINISHED CONCRETE. TEMPERATURE, TIME OF MIXING, GRADUATION OF THE SAND, TYPE OF AGGREGATE, WATER-CEMENT RATIO AND AMOUNT OF AIR-ENTRAINING AGENT EACH AFFECT THE QUALITY OF A MIX. EMPHASIS IS PLACED ON DESIGNING A MIX FOR THE CONDITIONS UNDER WHICH IT WILL BE PLACED AND TESTING THE MIX AT THE CONSTRUCTION SITE BEFORE ALLOWING IT TO BE USED ON THE JOB.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL= $15.00)

IRIS ACCESSION NUMBER: EW002343

TITLE: DIESEL ENGINE FUEL SYSTEMS.

DESCRIPTOR: AUDIOVISUAL AIDS; *DIESEL ENGINES; *ENGINES; *FILMS; *FUEL SYSTEMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 271575), (AGENCY NO. MN00046A), 16MM, 40 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: SHOWS THE BASIC STRUCTURE OF DIESEL FUEL SYSTEMS, PARTS AND OPERATION OF INJECTORS AND FUEL PUMPS, AND BOSCH, GENERAL MOTORS, AND EXCELLO EQUIPMENT.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($66.00)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002344

PUBLICATION DATE: 44

TITLE: DIESEL ENGINE GOVERNORS. PART 1: WOODWARD GOVERNORS.

DESCRIPTOR: AUDIOVISUAL AIDS; *DIESEL ENGINES; *ENGINES; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 271600), (AGENCY NO. MN00044A), 16MM, 14 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: SHOWS THE OPERATION OF DIESEL ENGINE GOVERNORS AND EXPLAINS THE OPERATION OF OVERSPEED, OVERSPEED TRIP, AND REGULATION GOVERNORS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($46.25)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002345

PUBLICATION DATE: 43

TITLE: DIESEL ENGINE GOVERNORS. PART 2: LIMITING SPEED, MECHANICAL GOVERNORS.

DESCRIPTOR: AUDIOVISUAL AIDS; *DIESEL ENGINES; *ENGINES; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 271601), (AGENCY NO. MN00044B), 16MM, 12 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: DISCUSSES THREE MAIN ASSEMBLIES OF THE GOVERNOR

AND THEIR FUNCTIONS. REVIEWS THE OPERATION OF THE MANUAL FULL CONTROL TO EXPLAIN THE ACTION OF THE GOVERNOR THROUGH LOW, INTERMEDIATE, AND HIGH SPEED RANGES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($39.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002346

PUBLICATION DATE: 42

TITLE: DIESEL ENGINE.

DESCRIPTOR: AUDIOVISUAL AIDS; *DIESEL ENGINES; *ENGINES; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 271650), (AGENCY NO. MN00042A), 16MM, 29 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: SHOWS HOW IGNITION MAY BE ACHIEVED BY COMPRESSION. DESCRIBES BASIC DIESEL ENGINE TYPES AND DISCUSSES FORMS OF AIR HEADERS AND FUEL INJECTORS. AN INTRODUCTORY SURVEY FILM.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($95.75)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002347

TITLE: DIESEL ENGINE: SCAVENGING AND SUPERCHARGING DIESEL ENGINES.

DESCRIPTOR: AUDIOVISUAL AIDS; *DIESEL ENGINES; *ENGINES; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 271675), (AGENCY NO. MN00042B), 16MM, 15 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: SHOWS OPERATION OF TWO-STOKE CYCLE, SINGLE AND DOUBLE ACTING ENGINES, AND OPPOSED PISTON ENGINES. DISCUSSES METHOD OF SCAVENGING AND SUPERCHARGING AIR.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($49.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002348

PUBLICATION DATE: 43

TITLE: DIESEL LUBRICATION AND COOLING SYSTEMS.

DESCRIPTOR: AUDIOVISUAL AIDS; *COOLING SYSTEMS; *DIESEL ENGINES; *ENGINES; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LUBRICATION; MECHANICS

DESCRIPTIVE NOTE: (TITLE NO. 271775), (AGENCY NO. MN00045A), 16MM, 10 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: DESCRIBES PARTS OF DIESEL LUBRICATING AND COOLING SYSTEMS AND HOW THEY WORK IN RELATION TO EACH OTHER.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($33.00)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002349

PUBLICATION DATE: 42

TITLE: DIESEL LUBRICATION AND COOLING SYSTEMS. LUBRICATION OF THE GM 71 SERIES ENGINES.

DESCRIPTOR: AUDIOVISUAL AIDS; COOLING SYSTEMS; *DIESEL ENGINES; *ENGINES; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LUBRICATION; *MECHANICS

DESCRIPTIVE NOTE: (TITLE NO. 001551), (AGENCY NO. MN 45-B), 16MM, 12 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: SHOWS, BY THE USE OF ANIMATION, THE COURSE OF THE OIL THROUGH THE ENGINE. DESCRIBES HOW IT LUBRICATED EACH COMPONENT PART AND EXPLAINS THE WORKING PRINCIPLE OF THE VENTILATION SYSTEM.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($39.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002350

PUBLICATION DATE: 45

TITLE: DISASSEMBLING THE ENGINE.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENGINES; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LUBRICATION; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 273350), (AGENCY NO. OE 268), 16MM, 13 MIN., OPTICAL SOUND, BLACK 8 WHITE

ABSTRACT: SHOWS HOW TO REMOVE THE OIL SUMP, VALVE TAPPET, AND GEAR CASE COVER ASSEMBLIES. TELLS HOW TO SEPARATE CRANKCASE, REMOVE CRANKSHAFT ASSEMBLY AND CAMSHAFT, AND DISASSEMBLE CRANKSHAFT AND GEAR CASE COVER ASSEMBLIES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL=$10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002351

PUBLICATION DATE: 45

TITLE: DISASSEMBLY.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENGINES; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTONAL MATERIALS; *MAINTENANCE; *MECHANICS; *MOTORS

DESCRIPTIVE NOTE: (TITLE NO. 000583), (AGENCY NO. MN03707A), 16MM, 30 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: SHOWS HOW TO INSPECT BLOWER ROTORS AND PISTONS, REMOVE HEAD AND SCRAPE WEAR RIDGE, REMOVE CONNECTING ROD BEARING, AND PULL ONE PISTON AND ONE LINER IN PISTON ASSEMBLY.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($49.00)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002352

PUBLICATION DATE: 55

TITLE: DISASTER AID: PUBLIC HEALTH ASPECTS.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *FLOODS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *PUBLIC HEALTH; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 273400), (AGENCY NO. M-0198), 16MM, 11 MIN., OPTICAL SOUND, BLACK & WHITE

ABSTRACT: EXPLAINS THE HEALTH PROBLEMS CREATED BY NATURAL DISASTERS AND THE METHODS USED TO SOLVE THESE PROBLEMS, USING AS AN EXAMPLE A FLOOD, AND THE ROLE OF LOCAL, STATE, AND FEDERAL HEALTH AGENCIES IN COMBATING THE RESULTANT PUBLIC HEALTH DANGERS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($36.25)

IRIS ACCESSION NUMBER: EW002353

PUBLICATION DATE: 52

TITLE: DRILLING A WELL BY THE PERCUSSION METHOD.

DESCRIPTOR: AUDIOVISUAL AIDS; *DRILLING; *FILMS; *GROUNDWATER; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *WATER WELLS; *WATER RESOURCES

DESCRIPTIVE NOTE: (TITLE NO. 279950), (AGENCY NO. 0046), 16MM, 6 MIN., OPTICAL SOUND, COLOR

ABSTRACT: EXPLAINS THE PERCUSSION WELL-DRILLING RIG, THE WELL DRILLING TOOL, PROCEDURES IN DRILLING THE WELL, INSTALLATION OF CASINGS, AND USE OF A BAILER IN REMOVING SLUDGE AND DIRTY WATER. USER SHOULD SUPPLEMENT FILM WITH CURRENT DATA.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($34.75)

IRIS ACCESSION NUMBER: EW002363

PUBLICATION DATE: 74

TITLE: THE BIOLOGY OF ESTUARIES AND COASTAL WATERS.

PERSONAL AUTHOR: PERKINS, E.J.

DESCRIPTOR: BIOLOGY; CHEMISTRY; *ENVIRONMENTAL INFLUENCES; ECOLOGY; *ESTUARIES; *MARINE BIOLOGY; NATURAL RESOURCES; *OCEANOLOGY; *PHYSICAL ENVIRONMENT; SCIENCES; *SEDIMENTS; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; ZOOLOGY

DESCRIPTIVE NOTE: 678P.

ABSTRACT: THIS BOOK PROVIDES AN INDEPTH LOOK AT THE VARIETY OF INTERACTIONS AFFECTING ESTUARIES AND COASTAL WATERS. TOPIC AREAS DISCUSSED INCLUDE: (1) PHYSICAL AND CHEMICAL FEATURES; (2) PLANKTON; (3) SEDIMENT TRANSPORT; (4) MICRO- AND MACROBENTHOS ORGANISMS; (5) MARICULTURE; (6) BIOLOGICAL EFFECTS OF WASTE DISPOSAL; AND (7) THE MANAGEMENT OF ESTUARIES AND COASTAL WATERS. EACH CHAPTER PROVIDES AN EXTENSIVE LIST OF REFERENCES.

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, NY 10003 ($54.50)

IRIS ACCESSION NUMBER: EW002364

PUBLICATION DATE: 75

TITLE: FLUID MECHANICS AND THERMODYNAMICS OF OUR ENVIRONMENT.

PERSONAL AUTHOR: ESKINAZI, S.

DESCRIPTOR: ENVIRONMENTAL INFLUENCES; *ENGINEERING; ENERGY; *FLUID MECHANICS; *HYDRAULICS; OCEANOLOGY; PHYSICS; *POLLUTION; *PHYSICAL ENVIRONMENT; *THERMODYNAMICS

DESCRIPTIVE NOTE: 422P.

ABSTRACT: CONSIDERED ARE THE PRINCIPLES OF FLUID MECHANICS AND THERMODYNAMICS ESPECIALLY AS THEY RELATE TO THE MOTION OF THE ENVIRONMENT AND THE MOVEMENTS OF POLLUTANTS. CHAPTER TOPICS INCLUDE: (1) GEOFLUIDS; (2) HEAT TRANSFER; (3) STATIC EQUILIBRIUM; (4) SURFACE TENSION; (5) GEOSTROPHIC MOTION; AND (6) THE FRICTIONAL SHEAR LAYER. AN EXTENSIVE REVIEW OF VECTOR ANALYSIS IS PROVIDED IN THE APPENDIX.

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, N.Y. 10003 ($34.00)

IRIS ACCESSION NUMBER: EW002366

PUBLICATION DATE: 75

TITLE: ORGANOCHLORINE INSECTICIDES: PERSISTENT ORGANIC POLLUTANTS.

PERSONAL AUTHOR: MORIARTY, F.

DESCRIPTOR: BEHAVIOR CHANGE; *CHEMICAL ANALYSIS; ECONOMICS; *ENVIRONMENTAL INFLUENCES; INSECTICIDES; LAWS; ORGANIC CHEMISTRY; *PESTICIDES; PHYSIOLOGY; *RESEARCH; REPRODUCTION (BIOLOGY); TOXICITY; *ZOOLOGY

DESCRIPTIVE NOTE: 302P.

ABSTRACT: THIS BOOK PRESENTS INFORMATION OBTAINED FROM STUDIES ON THE EFFECTS OF PERSISTENT ORGANIC COMPOUNDS. THE FIRST THREE CHAPTERS FOCUS ON THE AMOUNTS OF RESIDUES PRESENT: HOW TO MONITOR THEM AND THE RELATIONSHIP BETWEEN EXPOSURE, ANIMAL SIZE, AND RESIDUE CONCENTRATIONS. THE NEXT TWO CHAPTERS DISCUSS THE EFFECTS OF RESIDUES ON ANIMALS: SINGLE INDIVIDUALS AND POPULATIONS. THE FINAL CHAPTER DISCUSSES SOME OF THE ECONOMIC AND LEGAL CONSTRAINTS THAT EXIST FOR THE CONTROL OF PESTICIDE USE.

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE, NEW YORK, NY 10003 ($25.50)

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IRIS ACCESSION NUMBER: EW002385

PUBLICATION DATE: 74

TITLE: INTERNATIONAL LAW OF POLLUTION.

PERSONAL AUTHOR: BARROS, J.; JOHNSTON, D. M.

DESCRIPTOR: *BIBLIOGRAPHIES; *INTERNATIONAL ACTIVITIES; *LAWS; *POLLUTION; *POLLUTION CONTROL; *REGULATIONS

DESCRIPTIVE NOTE: 476P.

ABSTRACT: A COLLECTION OF JUDICIAL DECISIONS, UNILATERAL MEASURES, UN RESOLUTIONS, TREATIES, PROTOCOLS, AND CONVENTIONS WHICH DEFINE THE EMERGING INTERNATIONAL LAW OF POLLUTION. OUTLINES INTERNATIONALLY ACCEPTED STANDARDS OF POLLUTION AND CONTROL.

AVAILABILITY: THE FREE PRESS, 866 THIRD AVE., NEW YORK NY 10022, PRICE: $14.95

IRIS ACCESSION NUMBER: EW002391

TITLE: ENVIRONMENTAL HEALTH AND SAFETY.

PERSONAL AUTHOR: KOREN.

DESCRIPTOR: *ENVIRONMENT; *HEALTH; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *POLLUTION; *SAFETY

ABSTRACT: UNDERGRADUATE TEXTBOOK ON HEALTH AND SAFETY ASPECTS OF ENVIRONMENTAL PROBLEMS.

AVAILABILITY: PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523 ($20.00)

IRIS ACCESSION NUMBER: EW002392

TITLE: WATER QUALITY MANAGEMENT AND POLLUTION CONTROL PROBLEMS, VOLUME 3. PROGRESS IN WATER TECHNOLOGY.

PERSONAL AUTHOR: JENKINS, S.H.

DESCRIPTOR: *ADMINISTRATION; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *OPERATIONS (WATER); POST SECONDARY EDUCATION; *WATER QUALITY; *WATER ANALYSIS; WATER POLLUTION CONTROL

ABSTRACT: PROCEDURES FOR ADMINISTERING WATER QUALITY CONTROL PROGRAMS.

AVAILABILITY: PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523 ($42.00, XEROX COPIES)

IRIS ACCESSION NUMBER: EW002393

PUBLICATION DATE: 75

TITLE: ECOLOGICAL MODELING IN A RESOURCE MANAGEMENT FRAMEWORK.

PERSONAL AUTHOR: RUSSELL, C. S.

DESCRIPTOR: *ECOLOGY; *ECOSYSTEMS; *MANAGEMENT; *MODELS; *NATURAL RESOURCES; *WATER RESOURCES

DESCRIPTIVE NOTE: 394P.

ABSTRACT: PRESENTS THE PAPERS PREPARED FOR A 1974 SYMPOSIUM SPONSORED BY RESOURCES FOR THE FUTURE AND THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND AN EDITED TRANSCRIPT OF THE DISCUSSION. THE INTENTION OF THE SYMPOSIUM

WAS TO VIEW AQUATIC ECOLOGICAL MODELING IN THE FRAMEWORK OF RESOURCE MANAGEMENT.

AVAILABILITY: JOHNS HOPKINS, UNIVERSITY PRESS, BALTIMORE, MD 21218 PRICE: $6.00.

IRIS ACCESSION NUMBER: EW002395

PUBLICATION DATE: 74

TITLE: ENVIRONMENTAL STATEMENTS AND WATER RESOURCES PLANNING IN NORTH CAROLINA.

PERSONAL AUTHOR: HUFSCHMIDT M

DESCRIPTOR: *ENVIRONMENTAL IMPACT STATEMENTS; *NORTH CAROLINA; *PLANNING; *WATER RESOURCES

ABSTRACT: APPLICATION OF ENVIRONMENTAL IMPACT STATEMENTS TO WATER RESOURCES IN NORTH CAROLINA.

AVAILABILITY: WATER RESOURCES RESEARCH INSTITUTE, 124 RIDDICK BUILDING, NORTH CAROLINA STATE UNIVERSITY, RALEIGH, NC 27607 PRICE: $4.00

IRIS ACCESSION NUMBER: EW002399

PUBLICATION DATE: 74

TITLE: HANDBOOK OF COMMON METHODS IN LIMNOLOGY.

PERSONAL AUTHOR: LIND, O.

DESCRIPTOR: ANALYTICAL TECHNIQUES; FIELD STUDIES; *INSTRUCTIONAL MATERIALS; LABORATORY PROCEDURES; *LIMNOLOGY; *POST SECONDARY EDUCATION; RESEARCH METHODOLOGY.

ABSTRACT: TECHNIQUES USED IN LIMNOLOGICAL INVESTIGATIONS.

AVAILABILITY: C.V. MOSBY COMPANY, 11830 WESTLINE INDUSTRIAL DRIVE, ST. LOUIS, MO 63141 PRICE: $8.25

IRIS ACCESSION NUMBER: EW002400

PUBLICATION DATE: 75

TITLE: TEXTBOOK OF LIMNOLOGY.

PERSONAL AUTHOR: COLE, G. A.

DESCRIPTOR: ECOLOGY; *INSTRUCTIONAL MATERIALS; *LIMNOLOGY; *POST SECONDARY EDUCATION.

ABSTRACT: DISCUSSION OF THEORY AND PRACTICE OF LIMNOLOGY.

AVAILABILITY: C. V. MOSBY COMPANY, 11830 WESTLINE INDUSTRIAL DRIVE, ST. LOUIS, MO 63141 PRICE: $13.95

IRIS ACCESSION NUMBER: EW002410

PUBLICATION DATE: 74

TITLE: SUSPENDED SOLIDS IN WATER. MARINE SCIENCE, VOLUME 4.

PERSONAL AUTHOR: GIBBS

DESCRIPTOR: *INSTRUCTIONAL MATERIALS; *MARINE POLLUTION; *OCEANOLOGY; *POLLUTION; *POST SECONDARY EDUCATION; *SUSPENDED MATTER; *WATER POLLUTION CONTROL

ABSTRACT: THEORETICAL DISCUSSIONS OF SUSPENDED SOLIDS IN MARINE WATERS.

AVAILABILITY: PLENUM PUBLISHING CORP., 227 WEST 17TH ST., NEW YORK, NY 10011 ($29.50)

IRIS ACCESSION NUMBER: EW002412

TITLE: COST BENEFIT ANALYSIS AND WATER POLLUTION POLICY.

PERSONAL AUTHOR: PESKIN AND OTHERS

DESCRIPTOR: *COST BENEFIT ANALYSIS; *COST EFFECTIVENESS; *ECONOMICS; *PROGRAM EVALUATION; *INSTRUCTIONAL MATERIALS; *PLANNING; POLLUTION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WATER QUALITY

ABSTRACT: GENERAL DISCUSSION OF HOW TO MAKE COST-BENEFIT ANALYSES IN WATER QUALITY CONTROL PROGRAMS.

AVAILABILITY: THE URBAN INSTITUTE, 2100 M ST., N.W., WASHINGTON, D.C. 20037 ($5.95)

IRIS ACCESSION NUMBER: EW002414

PUBLICATION DATE: 74

TITLE: ECONOMIC ANALYSIS OF LAND TREATMENT OF MUNICIPAL WASTEWATER.

PERSONAL AUTHOR: CARLSON; YOUNG

DESCRIPTOR: *COSTS; *ECONOMICS; *LAND TREATMENT; *LAND APPLICATION; LAND USE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

ABSTRACT: ECONOMIC ASPECTS TO BE CONSIDERED IN DISPOSAL OF WASTES TO LAND.

AVAILABILITY: WATER RESOURCES RESEARCH INSTITUTE, 124 RIDDICK BUILDING, NORTH CAROLINA STATE UNIVERSITY, RALEIGH, NC 27607 PRICE: $4.00

IRIS ACCESSION NUMBER: EW002422

PUBLICATION DATE: 75

TITLE: ENVIRONMENTAL LAW HANDBOOK.

PERSONAL AUTHOR: ARBUCKLE; BAUM

DESCRIPTOR: AIR POLLUTION; *GOVERNMENT ROLE; *LAND USE; LEGISLATION; *LAWS; *NOISE POLLUTION; PESTICIDES; POLLUTION; *REGULATIONS; *SOLID WASTES; *TOXIC SUBSTANCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 320P.

ABSTRACT: VIEWS ON THE MAJOR FEDERAL LAWS AND REGULATIONS IN THE FIELDS OF AIR, WATER, NOISE, PESTICIDES AND TOXIC SUBSTANCES, SOLID WASTE AND LAND USE. EXAMINES IN LAYMEN'S TERMS EACH OF THESE TOGETHER WITH THEIR REQUIREMENTS AND RAMIFICATIONS ON INDUSTRY, GOVERNMENT AND THE PUBLIC.

AVAILABILITY: GOVERNMENT INSTITUTES, 4733 BETHESDA AVE., NW, BETHESDA, MD 20014 PRICE: $37.50

IRIS ACCESSION NUMBER: EW002426

TITLE: SLOW SAND FILTRATION.

PERSONAL AUTHOR: L. HUISMAN; AND W. E. WOOD.

DESCRIPTOR: *FILTRATION; *OPERATIONS (WATER); *SAND FILTRATION; *WATER TREATMENT.

ABSTRACT: DISCUSSION OF THE PROCESS OF SLOW SAND FILTRATION.

AVAILABILITY: Q CORPORATION, 29 SHERIDAN AVE., ALBANY, NY 12210 PRICE: $10.05

IRIS ACCESSION NUMBER: EW002432

PUBLICATION DATE: 71

TITLE: INTERBASIN WATER TRANSFERS A CASE IN MEXICO.

PERSONAL AUTHOR: CUMMINGS, R.G

DESCRIPTOR: *AGRICULTURE; IRRIGATION; *MEXICO; *MODELS; *MANAGEMENT; *NATURAL RESOURCES; RESERVOIRS; *URBAN AREAS; *WATER ALLOCATION; *WATER RESOURCES

ABSTRACT: PROVIDES MODELS AND METHODS FOR EVALUATING THE FEASIBILITY OF INTERBASIN WATER TRANSFERS. AMONG SEVERAL SECONDARY IMPACTS OF THE CASE STUDIED, THE MOST NOTABLE IS POSSIBLE EFFECTS ON URBAN AREAS OF CHANGES IN THE PATTERN OF AGRICULTURAL PRODUCTION. SETS FORTH PRINCIPLES OF RESERVOIR MANAGEMENT AND WATER ALLOCATION THAT MAXIMIZE THE NET VALUE OF AGRICULTURAL PRODUCTION IN AREAS HEAVILY DEPENDENT ON IRRIGATION.

AVAILABILITY: RESOURCES OF THE FUTURE, INC., 1755 MASSACHUSETTS AVE., NW, WASHINGTON, D.C. 20036 PRICE: $12.00 RENTAL

IRIS ACCESSION NUMBER: EW002433

PUBLICATION DATE: 75

TITLE: KEY TO THE GENERA OF DIATOMS OF THE INLAND WATERS OF TEMPERATE NORTH AMERICA.

PERSONAL AUTHOR: VINYARD, W.C

DESCRIPTOR: *ALGAE; BIOLOGY; *DIATOMS; *LAKES; *NORTH AMERICA; *RIVERS; *TAXONOMY; *TAXONOMIC KEYS

ABSTRACT: TAXONOMIC KEY TO DIATOM IDENTIFICATION.

AVAILABILITY: MAD RIVER PRESS, RT. 1 BOX 151-B, EUREKA, CA 95501 PRICE: $2.00

IRIS ACCESSION NUMBER: EW002434

PUBLICATION DATE: 74

TITLE: INTERIM MANUAL FOR WASTEWATER CHLORINATION AND DECHLORINATION PRACTICES.

PERSONAL AUTHOR: COLLINS; WHITE

DESCRIPTOR: *CALIFORNIA; *CHLORINATION; *DECHLORINATION; INSTRUCTIONAL MATERIALS; *MANUALS; OPERATIONS(WASTEWATER); POST SECONDARY EDUCATION; *REGULATIONS; *WASTEWATER TREATMENT

ABSTRACT: RECOMMENDED PRACTICE IN CALIFORNIA FOR CHLORINATION AND DECHLORINATION.

AVAILABILITY: CALIFORNIA WATER RESOURCES CONTROL BOARD, 1416 NINTH ST., SACRAMENTO, CA 95814 ($2.10)

IRIS ACCESSION NUMBER: EW002438

PUBLICATION DATE: 75

TITLE: OZONE CHEMISTRY AND TECHNOLOGY: A REVIEW OF THE LITERATURE.

PERSONAL AUTHOR: MURPHY, J.S.; ORR, J.R

DESCRIPTOR: *BIBLIOGRAPHIES; *CHEMISTRY; CONFERENCES; *OZONE; PATENTS; PERIODICALS; RESEARCH; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 392P. FRANKLIN INSTITUTE PRESS, PHILADELPHIA. STATE OF THE ART REVIEWS

ABSTRACT: THIS COMPREHENSIVE BIBLIOGRAPHY ON NINE ASPECTS

OF OZONE CHEMISTRY COVERS THE WORLD LITERATURE FROM 1961 TO 1974 INCLUDING PERIODICALS, PATENTS, AND CONFERENCE PROCEEDINGS. EACH CHAPTER, SUCH AS "OZONE TREATMENT OF WASTEWATER" INCLUDES AN OVERVIEW OF THE SUBJECT BY AN EXPERT FOLLOWED BY SUPPORTIVE BIBLIOGRAPHIC MATERIAL. AN AUTHOR INDEX IS PROVIDED AS WELL AS A HIERARCHICALLY ARRANGED SUBJECT INDEX.

AVAILABILITY: FRANKLIN INSTITUTE PRESS, BOX 2266, PHILADELPHIA, PA 19103 PRICE: $28.00

IRIS ACCESSION NUMBER: EW002439

PUBLICATION DATE: 74

TITLE: PHYSICS OF FLOW THROUGH POROUS MEDIA.

PERSONAL AUTHOR: SCHEIDDEGER, A.W.

DESCRIPTOR: *HYDRAULICS; *INSTRUCTIONAL MATERIALS; *PHYSICS

ABSTRACT: THEORETICAL ASPECTS OF FLOW THROUGH POROUS MEDIA.

AVAILABILITY: UNIVERSITY OF TORONTO PRESS, 33 E TUPPER ST., BUFFALO, NY 14203 PRICE: $20.00

IRIS ACCESSION NUMBER: EW002443

PUBLICATION DATE: 75
TITLE: EVOLUTION OF A VALLEY.

PERSONAL AUTHOR: JONES

DESCRIPTOR: *ECOLOGY; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *MAINE; *POLLUTION; POST SECONDARY EDUCATION; *RIVERS; WATER QUALTIY; *WATER POLLUTION CONTROL

ABSTRACT: EFFORTS TAKEN TO CLEAN UP THE ANDROSCOGGIN RIVER IN MAINE.

AVAILABILITY: PHOENIX PUBLISHING CO., CANAAN, NH 03741 ($7.95)

IRIS ACCESSION NUMBER: EW002444

PUBLICATION DATE: 75

TITLE: POLLUTION PRICES AND PUBLIC POLICY.

PERSONAL AUTHOR: KNEESE; SCHULTZE

DESCRIPTOR: *ECONOMICS; *LAWS; *POLLUTION; *PUBLIC POLICY; *REGULATIONS

ABSTRACT: DISCUSSION OF THE ECONOMICS OF POLLUTION.

AVAILABILITY: THE BROOKINGS INSTITUTE, 1775 MASSACHUSETTS AVE., NW, WASHINGTON, DC 20036 ($3.95, $9.95 HANDBACK)

IRIS ACCESSION NUMBER: EW002446

PUBLICATION DATE: 77

TITLE: PROCESS DESIGN TECHNIQUES FOR INDUSTRIAL WASTE TREATMENT.

PERSONAL AUTHOR: ADAMS, C. E.; ECKENFELDER, W. W.

DESCRIPTOR: *DESIGN; *FACILITIES; *INDUSTRIAL WASTES; *WASTE DISPOSAL; *WASTEWATER TREATMENT

ABSTRACT: PRESENTS A LOGICAL SEQUENCE OF DESIGN TECHNIQUES SO THAT PARAMETERS, DEVELOPED FROM LABORATORY AND PILOTSCALE INVESTIGATIONS, MIGHT BE EFFECTIVELY INCORPORATED INTO A FINAL PROCESS DESIGN. A SINGLE INDUSTRIAL WASTE IS TREATED BY MOST OF THE WIDELY-USED UNIT PROCESSES SO THAT A TOTAL WASTE TREATMENT SYSTEM IS EVOLVED. THIS APPROACH ALLOWS NOT ONLY THE OPTIMIZATION OF EACH INDIVIDUAL OPERATION, BUT PRESENTS THE OVERALL VIEW OF INTEGRATING APPLICABLE PROCESSES TO ACHIEVE AN OPTIMIZED WASTE TREATMENT FACILITY.

AVAILABILITY: ASSOCIATED WATER AND AIR RESOURCES ENGINEERS, INC., ENVIRO PRESS, P O BOX 40284, NASHVILLE, TN 37204 PRICE: $10.00

IRIS ACCESSION NUMBER: EW002459
PUBLICATION DATE: 74

TITLE: STEVENS WATER RESOURCES DATA BOOK.

PERSONAL AUTHOR: STEVENS; LEUPOLD

DESCRIPTOR: *FLOW MEASUREMENT; FLOW METERS; *HYDROLOGY; *INSTRUCTIONAL MATERIALS; MEASUREMENT; METRIC SYSTEM; POST SECONDARY EDUCATION; WATER RESOURCES; *WATER WELLS; *WATER METERS

DESCRIPTIVE NOTE: 160P. ILLUSTRATIONS, COMBBINDING

ABSTRACT: USEFUL GUIDE FOR BOTH NOVICE AND TRAINED HYDROLOGIST INCLUDES INFORMATION ON THE HYDROLOGIC CYCLE, WATER LEVEL MEASURMENT METHODS FROM ANCIENT TO MODERN TIMES, FLOAT WELLS AND INSTRUMENT SHELTERS, OPEN CHANNEL FLOW MEASUREMENT, MEASURING FLOWS IN MANHOLES, WELL MEASUREMENT, WEIR AND FLUME TABLES AND MANY HELPFUL CONVERSION TABLES INCLUDING DATA ON THE METRIC SYSTEM.

AVAILABILITY: LEUPOLD AND STEVENS, INC., PO BOX 688, BEAVERTON, OR 97005 ($5.00)

IRIS ACCESSION NUMBER: EW002462

PUBLICATION DATE: 45

TITLE: ELECTRICAL CIRCUIT FAULTS.

DESCRIPTOR: AUDIOVISUAL AIDS; *ELECTRIC POWER; *ELECTRICITY; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *TROUBLESHOOTING

DESCRIPTIVE NOTE: (TITLE NO. 293700), (AGENCY NO. OE 375), 16MM, 19 MIN., OPTICAL SOUND, BLACK & WHITE, SALE PRICE: $33.75

ABSTRACT: SHOWS HOW TO TEST FOR AND LOCATE COMMON CIRCUIT FAULTS, SUCH AS GROUNDS, RESISTANCE DETERIORATION AND INTERFERENCE IN CIRCUITS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002463

PUBLICATION DATE: 65

TITLE: ELECTRICAL EQUIPMENT-MASTER OR SERVANT.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *ELECTRIC POWER; *EXPLOSIONS; FILMS; *FIRE PROTECTION; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 003559), 16MM, 18 MIN., OPTICAL SOUND, COLOR

ABSTRACT: DEMONSTRATES HOW ELECTRICAL EQUIPMENT CAN ACT AS IGNITION SOURCES TO CAUSE FIRES AND EXPLOSIONS IN GASEOUS ATMOSPHERES. THE USE OF PERMISSIBLE, EXPLOSION-PROOF EQUIPMENT IS THEN DEMONSTRATED, SHOWING HOW IGNITIONS ARE PREVENTED, AND PRECAUTIONS ARE OUTLINED FOR WORKING WITH ELECTRICAL EQUIPMENT.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($104.50)

INSTITUTION NAME: U.S. BUREAU OF MINES.

IRIS ACCESSION NUMBER: EW002464

PUBLICATION DATE: 45

TITLE: ENGINE ASSEMBLY.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENGINES; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MECHANICS; *MAINTENANCE

DESCRIPTIVE NOTE: (TITLE NO. 303100), (AGENCY NO. OE 463), 16MM, 19 MIN., OPTICAL SOUND, BLACK & WHITE, PURCHASE PRICE: $33.75

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($RENTAL: $7.50)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002469

PUBLICATION DATE: 59

TITLE: FIRST AID FOR ALL HANDS.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *FIRST AID; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327475) (AGENCY NO. MN08188A) 16MM, 13 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: ESTABLISHES THE FRAMEWORK OF SIX FILMS BY PRESENTING A SYSTEMATIC APPROACH TO THE EXAMINATION OF AN INJURED PERSON AND BY ESTABLISHING THE PRIORITY FOR VARIOUS FIRST AID TREATMENT PROCEDURES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE; $43.00)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002470

PUBLICATION DATE: 59

TITLE: FIRST AID FOR ALL HANDS: ASPHYXIA.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *ASPHYXIA; *ARTIFICIAL RESPIRATION; *FILMS; *FIRST AID; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327476) (AGENCY NO. MN08188B) 16MM, 15 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: SHOWS HOW TO RECOGNIZE AND TREAT ASPHYXIA, AND POINTS OUT SOME PRECAUTIONS TO OBSERVE IN RESCUING ASPHYXIATED PERSONS. DEMONSTRATES METHODS OF APPLYING ARTIFICIAL RESPIRATION, WITH EMPHASIS UPON THE BASIC ELEMENTS INHERENT IN ALL METHODS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $49.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002471
PUBLICATION DATE: 59

TITLE: FIRST AID FOR ALL HANDS: BLEEDING.

DESCRIPTOR: ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *BLEEDING; *FILMS; *FIRST AID; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327477) (AGENCY NO. MN08188C) 16MM, 15 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: SHOWS HOW TO RECOGNIZE AND TREAT INJURIES INVOLVING VARIOUS KINDS OF BLEEDING. INCLUDES EXAMPLES OF LIFE THREATENING BLEEDING. DEMONSTRATES IN DETAIL HOW AND WHEN TO USE THE PRESSURE DRESSING, ELEVATION, OR THE TOURNIQUET.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $49.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002472

PUBLICATION DATE: 59

TITLE: FIRST AID FOR ALL HANDS: BURNS.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *BURNS; *FILMS; *FIRST AID; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327478) (AGENCY NO. MN08188E) 16MM, 12 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: EXPLAINS HOW TO RECONGNIZE THE SEVERITY OF A BURN. SHOWS HOW TO GIVE FIRST AID FOR A THERMAL OR CHEMICAL BURN. DEMONSTRATES HOW TO RELIEVE PAIN, PREVENT SHOCK, AND PREVENT INFECTION.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $39.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002473

PUBLICATION DATE: 59

TITLE: FIRST AID FOR ALL HANDS: FRACTURES.

DESCRIPTOR: ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *FRACTURES; *FIRST AID; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 001689) (AGENCY NO. MN8188D) 16MM, 24 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: SHOWS HOW TO RECOGNIZE AND TREAT A FRACTURE WITH EMPHASIS UPON FRACTURES OF THE EXTREMITIES, SKULL, SPINE, AND PELVIS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $79.25)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002474

PUBLICATION DATE: 59

TITLE: FIRST AID FOR ALL HANDS: HANDLING AND TRANSPORTING.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *FIRST AID; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327399) (AGENCY NO. MN08188F) 16MM, 13 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: OUTLINES THE PRINCIPLES FOR HANDLING AND TRANSPORTING OF INJURED PERSONS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $43.00)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002475

PUBLICATION DATE: 57

TITLE: FIRST AID FOR BLEEDING.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *BLEEDING; *FILMS; *FIRST AID; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 000601) (AGENCY NO. MN08182) 16MM, 21 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: SHOWS HOW TO RECOGNIZE THE THREE TYPES OF BLEEDING-ARTERIAL, VENOUS, AND CAPILLARY-AND HOW TO TREAT EACH TYPE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $121.75)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002476

PUBLICATION DATE: 57

TITLE: FIRST AID FOR BURNS.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *BURNS; *FILMS; *FIRST AID; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327460) (AGENCY NO. MN08185) 16MM, 23 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: EXPLAINS FIRST AID TREATMENT FOR BURNS--TO RELIEVE PAIN, TO PREVENT OR TREAT SHOCK, AND TO PREVENT INFECTION. EMPHASIZES THE NECESSITY FOR GIVING PROMPT AND APPROPRIATE FIRST AID CARE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $133.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002477

PUBLICATION DATE: 55

TITLE: FIRST AID FOR FRACTURES: INTRODUCTION.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *FIRST AID; *FRACTURES; *INSTRUCTIONAL MATERIALS; INSTRUCTIONAL FILMS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327500) (AGENCY NO. MN08184A) 16MM, 15 MIN,. OPTICAL SOUND, COLOR.

ABSTRACT: EXPLAINS RECOGNITION AND GENERAL FIRST AID TREATMENT OF FRACTURES, WITH EMPHASIS ON FRACTURES OF THE EXTREMITIES. INCLUDES DESCRIPTIONS OF THE BASIC TYPES OF FRACTURES--GREENSTICK, IMPACTED, AND COMMINUTED.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $87.00)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002478

PUBLICATION DATE: 55

TITLE: FIRST AID FOR FRACTURES: SKULL, SPINE AND PELVIS.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; FRACTURES; *FIRST AID; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327505) (AGENCY NO. MN08184B) 16MM, 13 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: EXPLAINS THE SERIOUSNESS OF FRACTURES OF THE SKULL, SPINE, AND PELVIS. THROUGH A SERIES OF SIMULATED CASES, DEPICTS SPECIFIC PROCEDURES FOR RECOGNIZING AND TREATING EACH OF THESE TYPES OF FRACTURES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($75.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002479

PUBLICATION DATE: 56

TITLE: FIRST AID FOR FRACTURES: THOMAS LEG SPLINT.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *FIRST AID; *FRACTURES; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SPLINTS

DESCRIPTIVE NOTE: (TITLE NO. 327510) (AGENCY NO. MN08184E) 16MM, 8 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: DEMONSTRATES STEP-BY-STEP HOW TO APPLY A THOMAS LEG SPLINT (HALF-RING) TO IMMOBILIZE ANY FRACTURE OF THE THIGH, KNEE OR LEG.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $26.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002480

PUBLICATION DATE: 56

TITLE: FIRST AID FOR FRACTURES: TRIANGULAR ARM SPLINT.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIVISUAL AIDS; *FILMS; *FIRST AID; *FRACTURES; INSTRUCTIONAL FILM; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SPLINTS

DESCRIPTIVE NOTE: (TITLE NO. 327515) (AGENCY NO. MN08184C) 16MM, 6 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: DEMONSTRATES STEP-BY-STEP HOW TO APPLY A TRIANGULAR ARM SPLINT, AND SHOWS HOW IT IS EMPLOYED IN COMBINATION WITH A SINGLE PADDED BASSWOOD SPLINT FOR FRACTURES OF THE UPPER OR LOWER ARM.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $19.75)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002481

PUBLICATION DATE: 56

TITLE: FIRST AID FOR FRACTURES: UNIVERSAL LEG SPLINT.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *FIRST AID; *FRACTURES; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SPLINTS

DESCRIPTIVE NOTE: (TITLE NO. 327520) (AGENCY NO. MN08184D) 16MM, 5 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: DEMONSTRATES STEP-BY-STEP HOW TO APPLY A UNIVERSAL LEG SPLINT TO FRACTURES OF THE LOWER EXTREMITY.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $16.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002482

PUBLICATION DATE: 57

TITLE: FIRST AID FOR HEAT STROKE AND HEAT EXHAUSTION.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILMS; *FIRST AID; *HEAT STROKE; *HEAT EXHAUSTION; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 000602) (AGENCY NO. MN08186) 16MM, 19 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: DEMONSTRATES HOW TO RECOGNIZE AND TREAT HEAT STROKE AND HEAT EXHAUSTION CASES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $110.25)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002483

PUBLICATION DATE: 56

TITLE: FIRST AID. HANDLING AND TRANSPORTING OF THE INJURED: INTRODUCTION.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILMS; *FIRST AID; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 327491) (AGENCY NO. MN08187A) 16MM, 13 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: REVIEWS THE SEVEN PRINCIPLES OF PROPER HANDLING AND TRANSPORTING OF CASUALTIES; DO NOT MOVE BEFORE EXAMINING AND TREATING, KEEP INJURED LYING DOWN, HANDLE CAREFUULY, ATTACH RECORD, USE THREE MEN TO ROLL OR LIFT, KEEP WARM, AND USE STRETCHER FOR TRANSPORT.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $23.75)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002484

PUBLICATION DATE: 56

TITLE: FIRST AID. HANDLING AND TRANSPORTING OF THE INJURED: LIFELINES AND IMPROVISED STRETCHERS.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILMS; *FIRST AID; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LIFELINES; *POST SECONDARY EDUCATION; *STRETCHERS

DESCRIPTIVE NOTE: (TITLE NO. 327490) (AGENCY NO. MN08187C) 16MM, 13 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: COVERS SPECIAL TECHNIQUES OF HANDLING AND TRANSPORTING THE INJURED IN EMERGENCY SITUATIONS WHERE STANDARD STRETCHERS ARE NOT AVAILABLE. INCLUDES USE OF LIFELINES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON D.C., 20409 PURCHASE PRICE: $23.75

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002485

PUBLICATION DATE: 56

TITLE: FIRST AID. HANDLING AND TRANSPORTING OF THE INJURED: MASTERING BASIC TECHNIQUES.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *FIRST AID; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327492) (AGENCY NO. MN08187B) 16MM, 27 MIN,. OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: REVIEWS TECHNIQUES FOR STRAIGHTENING A SERIOUSLY INJURED CASUALTY--ROLLING, LIFTING, TRANSPORTING IN THE ARMY LITTER, AND THE USE OF THE STOKES AND NEIL ROBERTSON STRETCHERS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $47.00)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002486

PUBLICATION DATE: 60

TITLE: BURNS-FIRST AID.

DESCRIPTOR: AUDIOVISUAL AIDS; *BURNS; *FILMS; *FIRST AID; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327529) (AGENCY NO. TF08-2588) 16MM, 14 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: SHOWS SYMPTOMS OF 1ST, 2ND, AND 3RD DEGREE BURNS. DEMONSTRATES FIRST AID FOR SERIOUS BURNS CAUSED BY FLAME, HOT LIQUID, WHITE PHOSPHORUS, ACID, AND ALKALI.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $81.25)

IRIS ACCESSION NUMBER: EW002487

PUBLICATION DATE: 57

TITLE: MAJOR WOUNDS AND FRACTURES-FIRST AID.

DESCRIPTOR: AUDIOVISUAL AIDS; *FILMS; *FIRST AID; *FRACTURES; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 327730) (AGENCY NO. TF08-2292) 16MM, 33 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: DESCRIBES TREATMENT FOR WOUNDS OF THE CHEST, BELLY, HEAD AND FACE AND FRACTURES OF THE JAW, LEG, ELBOW, ARM, RIBS, NECK AND BACK.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $191.50)

IRIS ACCESSION NUMBER: EW002488

PUBLICATION DATE: 61

TITLE: MOUTH TO MOUTH, MOUTH TO NOSE, AND FIRST AID.

DESCRIPTOR: AUDIOVISUAL AIDS; *ARTIFICIAL RESPIRATION; *FILMS; *FIRST AID; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *RESUSCITATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 327530) (AGENCY NO. TF08-3021) 16MM, 23 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: COMPARES MOUTH-TO-MOUTH AND MOUTH-TO-NOSE RESUSCITATION WITH OTHER METHODS OF ARTIFICIAL RESPIRATION. DEMONSTRATES THE APPLICATION OF MOUTH-TO-MOUTH RESUSCITATION, THUMB JAW-LIFT, TWO HANDS JAWLIFT AND MOUTH-TO-NOSE TECHIQUES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $133.50)

IRIS ACCESSION NUMBER: EW002494

PUBLICATION DATE: 60

TITLE: INCINERATION.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *INCINERATION; INDUSTRIAL WASTES; *POST SECONDARY EDUCATION; SOLID WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: (TITLE NO. 002238) (AGENCY NO. M-0353) 16MM, 13 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: DISCUSSES THE PRINCIPLES OF INCINERATION AND EXPLAINS THE METHOD AS A MEANS OF SANITARY REFUSE DISPOSAL.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $75.50)

IRIS ACCESSION NUMBER: EW002495

PUBLICATION DATE: 68

TITLE: INDUSTRIAL HYGIENE-RIGHT MAKES SAFE.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *INDUSTRIAL HEALTH; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 424575) (AGENCY NO. MN10295) 16MM, 19 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: DESCRIBES DANGERS TO EARS, SKIN, EYES AND THE RESPIRATORY SYSTEM AND SHOWS PREVENTIVE MEASURES AND EQUIPMENT FOR ELIMINATING RISKS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $110.25)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002496

PUBLICATION DATE: 59

TITLE: INSPECTION, MAINTENANCE, AND OPERATION OF AUTOMATIC SPRINKLER SYSTEMS.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *FIRE PROTECTION; INSPECTION; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; MAINTENANCE; *POST SECONDARY

EDUCATION; *SAFETY; *SPRINKLERS
DESCRIPTIVE NOTE: (TITLE NO. 428275) (AGENCY NO. TF01-5303) 16MM, 26 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: EXPLAINS THE IMPORTANCE OF AUTOMATIC SPRINKLER SYSTEMS IN FIRE PROTECTION AND CONTROL. DEMONSTRATES INSPECTION AND MAINTENANCE PROCEDURES COMMON TO ALL SYSTEMS, AND EMPHASIZES THE WET PIPE, DRY PIPE, AND DELUGE SYSTEMS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409

INSTITUTION NAME: U.S. AIR FORCE.

IRIS ACCESSION NUMBER: EW002497

PUBLICATION DATE: 60

TITLE: INTRODUCTION TO FIRE BEHAVIOR.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *FIRE PROTECTION; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 003960) (AGENCY NO. 1415) 16MM, 17 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: SHOWS THE BASIC FUNDAMENTALS FOR COMBUSTION AND THE INFLUENCES OF FUEL, WEATHER, AND TOPOGRAPHY ON FIRE BEHAVIOR. EMPHASIZES THE MANY FACTORS THAT MAKE A FIRE BURN AND DEMONSTRATES HOW STRATEGY CAN BE PLANNED FROM KNOWLEDGE OF THIS BEHAVIOR.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $57.50)

INSTITUTION NAME: U.S. DEPARTMENT OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW002499

PUBLICATION DATE: 53

TITLE: LUBRICATION OF ELECTRONIC EQUIPMENT.

DESCRIPTOR: AUDIOVISUAL AIDS; *ELECTRONIC EQUIPMENT; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LUBRICATION; *MAINTENANCE; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 692710) (AGENCY NO. MN6942) 16MM, 9 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: EXPLAINS THE IMPORTANCE OF ROUTINE AND METHODICAL LUBRICATION OF ELECTRONIC EQUIPMENT ACCORDING TO RECOMMENDED PROCEDURES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $52.75)
INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002500

PUBLICATION DATE: 69

TITLE: MAN AND HIS HABITS.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 003532) 16MM, 13 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: SHOWS HOW MAN'S HABITS MAY ENDANGER HIS SAFETY BY BECOMING ROUTINE WHEN CARRIED OVER TO HIS WORK. BY VISUAL EXAMPLES, THE WORKER IS SHOWN HOW TO ACQUIRE SAFE WORK HABITS BY PRACTICING SAFETY AT HOME AND ON THE JOB.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER; REFERENCE SECTION; GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409(PURCHASE PRICE: $75.50)

INSTITUTION NAME: U.S. BUREAU OF MINES.

IRIS ACCESSION NUMBER: EW002501

PUBLICATION DATE: 69

TITLE: MANS SHORTCOMINGS.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *WORKER ATTITUDE

DESCRIPTIVE NOTE: (TITLE NO. 003533) 16MM, 13 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: DRAMATICALLY ENACTED SCENES SHOW HOW MAN'S PERSONALITY QUIRKS MAY ENDANGER HIS AND OTHER WORKERS' SAFETY. SUGGESTIONS ARE GIVEN TO AVOID OR CHANGE THIS MENTAL ATTITUDE AND PREVENT THESE NONSENSIBLE ACTIONS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $75.50)

INSTITUTION NAME: U.S. BUREAU OF MINES.

IRIS ACCESSION NUMBER: EW002503

PUBLICATION DATE: 62

TITLE: MEET MR NOISE.

DESCRIPTOR: AUDIOVISUAL AIDS; *ACOUSTICS; *FILMS; *HEALTH; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *NOISE POLLUTION; *POST SECONDARY EDUCATION; POLLUTION; *WORK ENVIRONMENT

DESCRIPTIVE NOTE: (TITLE NO. 002375) (AGENCY NO. TF01-8193) 16MM, 26 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: POINTS OUT HAZARDS OF WORKING IN AN AREA OF VIBRATION AND NOISE. SHOWS HOW NOISE OF HEIGHTENED INTENSITY CAN IMPAIR HEARING AND GENERAL HEALTH. DEMONSTRATES HOW PROPERLY FITTED PROTECTIVE DEVICES WORN BY PERSONNEL REDUCES ADVERSE EFFECTS OF NOISE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $63.75)

INSTITUTION NAME: U.S. AIR FORCE DIRECTORATE OF ENGINEERING.

IRIS ACCESSION NUMBER: EW002504

PUBLICATION DATE: 69

TITLE: MOTIVATION: A MEANS TO ACCIDENT PREVENTION.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY; *WORKER ATTITUDE

DESCRIPTIVE NOTE: (TITLE NO. 003535) 16MM, 11 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: SHOWS HOW PROPER MOTIVATION PREVENTS ACCIDENTS AT HOME AND ON THE JOB. THE REASONS THAT MOTIVATE THE STAFF ARE PRESENTED IN A VISUALLY INTERESTING MANNER.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $63.75)

INSTITUTION NAME: U.S. BUREAU OF MINES.

IRIS ACCESSION NUMBER: EW002505

PUBLICATION DATE: 61

TITLE: MOTORS AND GENERATORS, PART 1: DC MOTORS AND GENERATORS.

DESCRIPTOR: AUDIOVISUAL AIDS; *ELECTRIC MOTORS; *FILMS; *GENERATORS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MOTORS; *MAINTENANCE; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 002562) (AGENCY NO. TF9-3106) 16MM, 35 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: DESCRIBES THE CONSTRUCTION, USES, AND PRINCIPLES GOVERNING THE OPERATION OF DC MOTORS AND GENERATORS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $115.50)

IRIS ACCESSION NUMBER: EW002506

PUBLICATION DATE: 61

TITLE: MOTORS AND GENERATORS, PART 2: AC MOTORS AND GENERATORS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *ELECTRIC MOTORS; *FILMS; *GENERATORS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MOTORS; *MAINTENANCE *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 534801) (AGENCY NO. TF09-3107) 16MM, 25 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: DESCRIBES THE DESIGN, CHARACTERISTICS, AND OPERATION OF AC GENERATORS AND MOTORS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $82.50)

IRIS ACCESSION NUMBER: EW002511

PUBLICATION DATE: 71

TITLE: NINE OUT OF TEN.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *FIRE PROTECTION; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 002213) (AGENCY NO. 10034) 16MM, 31 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: FEATURES SERVICE-WIDE FIRE PROTECTION PROBLEMS OF DEBRIS BURNING, INDUSTRIAL FIRES, AND RECREATION FIRES. THE TRAINING MESSAGE INVOLVES 10 ESSENTIALS FOR IMPROVING FIRE PREVENTION AND HOW TO APPLY THEM.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $179.75

INSTITUTION NAME: U.S. DEPARTMENT OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW002513

PUBLICATION DATE: 65

TITLE: OH MY ACHING BACK.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL MATERIALS; INSTRUCTIONAL FILMS; *INDUSTRIAL SAFETY; *MANUAL LABOR; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 003550) 16MM, 21 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: SHOWS THE CORRECT METHOD OF LIFTING, INCLUDING GOOD POSTURE, POSITION, AND SMOOTH APPLICATION OF LIFTING POWER. ILLUSTRATES HOW STRAINS OCCUR AND HOW DISCS ARE PINCHED. EMPHASIZES THE NEED FOR PROPER LIFTING AND HANDLING OF WORKING TOOLS AND MATERIALS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $121.75)

INSTITUTION NAME: U.S. BUREAU OF MINES.

IRIS ACCESSION NUMBER: EW002514

PUBLICATION DATE: 60

TITLE: ONE HUNDRED FIFTEEN DEADLY SHIPMATE.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *ELECTRICAL SAFETY; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 002632) (AGENCY NO. MN 8990) 16MM, 19 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: PORTRAYS THE STORY OF JOE, WHO IS REPRESENTATIVE OF ALL SAILORS. DRAMATIZES ACTUAL INCIDENTS TO EMPHASIZE THE DISASTROUS EFFECTS OF LOW VOLTAGE ELECTRICAL SHOCK WHEN THE BASIC RULES OF ELECTRICAL SAFETY ARE VIOLATED OR IGNORED.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $110.25)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002515

PUBLICATION DATE: 49

TITLE: ONLY A BUNCH OF TOOLS.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FIRE PROTECTION; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 567750) (AGENCY NO. 1053) 16MM, 20 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: DEMONSTRATES IN STORY FORM THE USE OF SMALL TOOLS IN FIRE FIGHTING, AND HOW TRAINING IN THE USE OF SUCH TOOLS SAVED A HOUSE AND WOOD LOT FROM DESTRUCTION.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $126.00)

INSTITUTION NAME: U.S. DEPARTMENT OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW002516

PUBLICATION DATE: 70

TITLE: OPERATIONS WITH WHOLE NUMBERS.

DESCRIPTOR: *ARITHMETIC; ADDITION; AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MATHEMATICS; MULTIPLICATION; *NUMBER CONCEPTS; *POST SECONDARY EDUCATION; SUBTRACTION

DESCRIPTIVE NOTE: (TITLE NO. 569306) 16MM, 22 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: EXPLORES PROCEDURES FOR INTERRELATING ADDITION AND SUBTRACTION. SHOWS MATERIALS, METHODS AND STRATEGIES WHICH ARE PARTICULARLY EFFECTIVE. ATTENTION IS FOCUSED ON THE USE OF MULTIPLE TECHNIQUES FOR IMPROVING INSTRUCTION IN MULTIPLICATION. EMPHASIZES LOGRITHMS WHICH HAVE BEEN FOUND TO BE PARTICULARLY EFFECTIVE. STRESSES THE USE OF MATERIALS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($127.50)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002517

TITLE: ORIGIN AND HISTORY OF PROGRAM BUDGETTING.

DESCRIPTOR: *ACCOUNTING; AUDIOVISUAL AIDS; *BUDGETS; *FILMS; INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MANAGEMENT; *POST SECONDARY EDUCATION; *PROGRAM PLANNING

DESCRIPTIVE NOTE: (TITLE NO. 002741) 16MM, 25 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: TRACES THE HISTORY OF PLANNING, PROGRAMMING, AND BUDGETING; DESCRIBES THE FUNDAMENTALS OF THE SYSTEM.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 PURCHASE PRICE: $82.50

IRIS ACCESSION NUMBER: EW002518

PUBLICATION DATE: 45

TITLE: OVERHAULING CAMSHAFT ASSEMBLY AND CRANKCASE SECTION.

DESCRIPTOR: AUDIOVISUAL AIDS; *CAMSHAFTS; *CRANKCASES; *ENGINES; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 578150) (AGENCY NO. OE 270)

16MM, 19 MIN., OPTICAL SOUND, BLACK 8 WHITE.
ABSTRACT: EXPLAINS HOW TO INSPECT THE CAMSHAFT AND GEAR CASE COVER ASSEMBLY, INSPECT AND RECONDITION THE CRANKCASE SECTION, MEASURE CRANKCASE BEARINGS AND INSPECT AND RECONDITION THE REMAINING PARTS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE : $62.79)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002519

PUBLICATION DATE: 45

TITLE: OVERHAULING CRANKSHAFT ASSEMBLY.

DESCRIPTOR: AUDIOVISUAL AIDS; *CRANKSHAFTS; *ENGINES; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 578200) (AGENCY NO. OE 269) 16MM, 19 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: EXPLAINS HOW TO CLEAN THE PARTS OF A DISASSEMBLED ENGINE. INSPECT AND RECONDITION CRANKSHAFT ASSEMBLY PARTS, DETERMINE CLEARANCES AND CHECK FOR OUT-OF ROUND AND INSPECT CLEARANCES AGAINST SPECIFICATIONS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $62.75)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002520

PUBLICATION DATE: 45

TITLE: OVERHAULING THE CARBURETOR.

DESCRIPTOR: AUDIOVISUAL AIDS; *CARBURETORS; *ENGINES; *FILMS; *INSTRUCTIONAL FILMS; *MAINTENANCE; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 578250) (AGENCY NO. OE267) 16MM, 23 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: SHOWS HOW TO REMOVE THE CARBURETOR ASSEMBLY FROM THE ENGINE, DISASSEMBLE, CLEAN, INSPECT AND REASSEMBLE THE CARBURETOR, CHECK THE FUEL LEVEL AND REINSTALL THE CARBURETOR ASSEMBLY.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 ($76.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002521
PUBLICATION DATE: 67

TITLE: PATH TO SAFETY.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 002785) (AGENCY NO. FA-0612) 16MM 20 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: POINTS OUT THAT MORE ACCIDENTS ARE CAUSED BY HUMAN ERROR THAN BY ANY OTHER FACTOR.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $116.00)

INSTITUTION NAME: U.S. FEDERAL AVIATION ADMINISTRATION.

IRIS ACCESSION NUMBER: EW002523

PUBLICATION DATE: 45

TITLE: PERIODIC CHECK UP.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENGINES; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *POST SECONDARY EDUCATION; *TUNE UPS.

DESCRIPTIVE NOTE: (TITLE NO. 592500) (AGENCY NO. OE 489) 16MM, 18 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: SHOWS HOW TO TUNE THE ENGINE, CHECK AND ADJUST THE BRAKE SYSTEM, AND INSPECT THE STEERING SYSTEM, CHASSIS AND BODY.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL PRICE: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002524

PUBLICATION DATE: 45

TITLE: PERIODIC INSPECTION: ENGINE.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENGINES; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *POST SECONDARY EDUCATION; *TUNE UPS

DESCRIPTIVE NOTE: (TITLE NO. 002802) (AGENCY NO. OE 283) 16MM, 25 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: SHOWS HOW TO INSPECT THE GENERAL CONDITION OF AN ENGINE, EXAMINE INTERNAL PARTS, CHECK IGNITION AND FUEL

SYSTEM, EXAMINE THE PROPELLER, AND PREPARE AN ENGINE FOR START-UP.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL 8RICE: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002525

PUBLICATION DATE: 43

TITLE: PLIERS AND SCREW DRIVERS.

DESCRIPTOR: ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *MAINTENANCE; *POST SECONDARY EDUCATION; *PLIERS; *SREW DRIVERS; SAFETY; *TOOLS

DESCRIPTIVE NOTE: (TITLE NO. 003044) (AGENCY NO. TF9-2027) 16MM, 15 MIN., OPTICA6 SOUND, BLACK 8 WHITE.

ABSTRACT: DEMONSTRATES THE PROPER USE OF PLIERS AND SCREW DRIVERS AND SAFETY PRECAUTIONS TO BE OBSERVED IN THEIR USE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $49.50)

IRIS ACCESSION NUMBER: EW002526

PUBLICATION DATE: 45

TITLE: PRINCIPLES OF LUBRICATION.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *LUBRICATION; *MAINTENANCE; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 619650) (AGENCY NO. OE 355) 16MM, 16 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: DISCUSSES THE NEED FOR LUBRICATION AND THE PROPERTIES, ACTION AND VISCOSITY OF LUBRICANTS. DISCUSSES CONDITIONS THAT DETERMINE PROPER VISCOSITY.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL PRICE: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002528

PUBLICATION DATE: 45

TITLE: READING A THREE VIEW DRAWING.

DESCRIPTOR: *AUDIOVISUAL AIDS; *BLUEPRINTS; *DRAFTING; ENGINEERING; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *INDUSTRIAL DRAWING; *POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: (TITLE NO. 636350) (AGENCY NO. OE 052) 16MM, 10 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: DESCRIBES HOW TO INTERPRET AND USE A BLUEPRINT. SHOWS HOW TO MAKE A TOOL BLOCK ACCORDING TO SPECIFICATIONS WRITTEN ON A BLUEPRINT.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (RENTAL PRICE: $10.00)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002529

PUBLICATION DATE: 69

TITLE: SAFE SIDE CLYDE.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *JOB SAFETY; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 001872) (AGENCY NO. 7365) 16MM, 29 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: DESIGNED TO STIMULATE INTEREST IN SAFETY, AND TO BUILD A POSITIVE ATTITUDE TOWARD THE SAFE WAY TO WORK. THE CAST IS MADE UP OF JOB CORPS ENROLLEES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $168.25)

INSTITUTION NAME: U.S. DEPARTMENT OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW002530

PUBLICATION DATE: 64

TITLE: SAFE USE OF PESTICIDES.

DESCRIPTOR: *AGRICULTURE; AGROCHEMICALS; *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *PESTICIDES; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 660200) (AGENCY NO. 1570) 16MM, 21 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: EXPLAINS THE PROPER USE OF PESTICIDES, EMPHASIZING THE IMPORTANCE OF FOLLOWING INSTRUCTIONS ON THE LABELS TO AVOID SEIZURE OF CROPS BECAUSE OF HARMFUL RESIDUE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $175.00)

INSTITUTION NAME: U.S. DEPARTMENT OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW002531

PUBLICATION DATE: 69

TITLE: SAFETY CONSCIOUSNESS.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *POST SECONDARY EDUCATION; PUBLIC EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 003534) 16MM, 10 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: VARIOUS PEOPLE AT WORK AND PLAY DEMONSTRATE HOW TO DEVELOP SAFE ATTITUDES IN THEIR DAILY ACTIVITIES BY THEIR CLARITY IN THINKING, ACTING, AND OUTLOOK ON LIFE.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $58.00)

IRIS ACCESSION NUMBER: EW002532

PUBLICATION DATE: 59

TITLE: SAFETY FOR SURE.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *JOB SAFETY; POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 000834) (AGENCY NO. 1431) 16MM, 11 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: POINTS OUT THE SURE WAY TO SAFETY AND THE FOUR KEY POINTS TO BE TAUGHT ON ANY JOB: SIZE UP THE SITUATION, USE YOUR SAFETY CODE AND FOLLOW INSTRUCTIONS, PROTECT YOUR FELLOW WORKERS, AND ESTABLISH AN ALTERNATE PLAN. THE POSITIVE POINTS, IF CARRIED OUT, CAN PREVENT INJURY.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $99.50)

INSTITUTION NAME: U.S. DEPARTMENT OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW002533

PUBLICATION DATE: 44

TITLE: SAFETY IN THE SHOP.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; EQUIPMENT; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *SAFETY; *SHOP

DESCRIPTIVE NOTE: (TITLE NO. 003327) (AGENCY NO. OE 481) 16MM, 12 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: DRAMATIZES THREE TYPICAL SHOP ACCIDENTS AND SHOWS HOW POOR SUPERVISION OR INADEQUATE TRAINING MAY HAVE BEEN THE REAL CAUSE BEHIND THESE ACCIDENTS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $39.50)

INSTITUTION NAME: U.S. OFFICE OF EDUCATION.

IRIS ACCESSION NUMBER: EW002534

TITLE: SAFETY PIPETTING.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL MATERIALS; INSTRUCTIONAL FILMS; *LABORATORY SAFETY; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; *PIPETTES; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 003328) (AGENCY NO. M-1160) 16MM, 5 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: PRESENTS THREE INSTRUMENTS THAT ARE COMMONLY USED IN THE LABORATORY. THE OPERATION OF THESE INSTRUMENTS IS SHOWN IN DETAIL.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $29.00)

IRIS ACCESSION NUMBER: EW002535

PUBLICATION DATE: 76

TITLE: SAFETY PRECAUTIONS FOR ELECTRONICS PERSONNEL.

DESCRIPTOR: *ACCIDENT PREVENTION; *AUDIOVISUAL AIDS; *ELECTRONICS TECHNICIANS; ELECTRICITY; *FILMS; *INSTRUCTIONAL FILMS; *POST SECONDARY EDUCATION; *SAFETY

DESCRIPTIVE NOTE: (TITLE NO. 661450) (AGENCY NO. MN06754) 16MM, 18 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: SHOWS ELECTRICAL AND MECHANICAL HAZARDS WHICH ELECTRONICS TECHNICIANS ENCOUNTER IN THEIR NORMAL WORK; STRESSES PRECAUTIONS WHICH SHOULD BE EMPLOYED TO PREVENT ACCIDENTS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $59.50)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002537

PUBLICATION DATE: 65

TITLE: SHACKLES FOR THE GIANT.

DESCRIPTOR: *AUDIOVUSUAL AIDS; *FILMS; *FLOOD CONTROL; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MISSISSIPPI RIVER; *POST SECONDARY EDUCATION; *RIVERS

DESCRIPTIVE NOTE: (TITLE NO. 003454) 16MM, 25 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: SHOWS, BY ANIMATION AND LIVE PHOTOGRAPHY, THE DEVELOPMENT OF FLOOD-CONTROL PLANS AND DETAILS OF THE PLANS IN THE LOWER ALLUVIAL VALLEY OF THE MISSISSIPPI RIVER. PORTRAYS NEED FOR FLOOD CONTROL BY SCENES ILLUSTRATING THE GREAT DAMAGE AND SUFFERING CAUSED BY FLOODS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $145.00)

IRIS ACCESSION NUMBER: EW002539

PUBLICATION DATE: 53

TITLE: STUDIES IN BACTERIOLOGY PART 2: MOTILITY.

DESCRIPTOR: *AQUATIC MICROBIOLOGY; AUDIOVISUAL AIDS; BACTERIOLOGY; *BACTERIA; BIOLOGY; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; *POST SECONDARY EDUCATION; WATER QUALITY

DESCRIPTIVE NOTE: (TITLE NO. 003586) (AGENCY NO. M-0130-B) 16MM, 4 MIN., SILENT,BLACK 8 WHITE.

ABSTRACT: SHOWS BY CINEPHOTOMICROGRAPHY AND EXPLAINS BY CAPTIONS THE MOTILITY OF MONOTRICHOUS, AMPHITRICHOUS, AND PERITRICHOUS BACTERIA. USER SHOULD SUPPLEMENT FILM WITH CURRENT DATA. CREDITS--BASED ON PHOTOGRAPHS DONE IN 1930-31 BY R.P. LOVELAND OF EASTMAN KODAK CO. RESEARCH LABORATORIES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $13.25)

IRIS ACCESSION NUMBER: EW002540

PUBLICATION DATE: 53

TITLE: STUDIES IN BACTERIOLOGY, PART 3: CELL DIVISION.

DESCRIPTOR: *AQUATIC MICROBIOLOGY; AUDIOVISUAL AIDS; *BACTERIA; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *MICROBIOLOGY; *POST SECONDARY EDUCATION; WATER QUALITY

DESCRIPTIVE NOTE: (TITLE NO. 003578) (AGENCY NO. M-3130-C) 16MM, 4 MIN., SILENT,BLACK 8 WHITE.

ABSTRACT: SHOWS BY CINEPHOTOMICROGRAPHY AND EXPLAINS BY CAPTIONS THE PROCESS OF CELL DIVISION OF SPHERICAL AND ROD SHAPED BACTERIA. USER SHOULD SUPPLEMENT FILM WITH CURRENT DATA.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $13.25)

IRIS ACCESSION NUMBER: EW002542

PUBLICATION DATE: 68

TITLE: TEACH SAFETY.

DESCRIPTOR: *ACCIDENT PREVENTION; AUDIOVISUAL AIDS; *FILMS; INSTRUCTIONAL FILMS; *MINING; POST SECONDARY EDCCATION; *SAFETY; SUPERVISION

DESCRIPTIVE NOTE: (TITLE NO. 003529) 16MM, 15 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: STRESSES THE IMPORTANCE OF THE SUPERVISOR'S RESPONSIBILITY FOR TEACHING MINERS THE CORRECT, SAFE, AND EFFICIENT METHODS OF PERFORMING THEIR JOBS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $58.25)

INSTITUTION NAME: U.S. BUREAU OF MINES.

IRIS ACCESSION NUMBER: EW002543

PUBLICATION DATE: 56

TITLE: TRAINING AIDS.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *INSTRUCTIONAL FILMS; *INSTRUCTION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *VISUAL AIDS

DESCRIPTIVE NOTE: (TITLE NO. 756299) (AGENCY NO. TF21-2305) 16MM, 15 MIN., OPTICAL SOUND, BLACK 8 WHITE.

ABSTRACT: DESCRIBES THE TYPES, CHARACTERISTICS, AND USES OF SIMPLE AND COMPLEX TRAINING AIDS, INCLUDING CHALKBOARDS, FILMSTRIPS, SLIDES, TRANSPARENCIES, WORKING MODELS, AND MOTION PICTURES.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $52.75)

IRIS ACCESSION NUMBER: EW002545

PUBLICATION DATE: 48

TITLE: WATER.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; GROUNDWATER; *HYDROLOGY; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *METEOROLOGY; POST SECONDARY EDUCATION; *WATER RESOURCES

DESCRIPTIVE NOTE: (TITLE NO. 004015) (AGENCY NO. 1022) 16MM, 11 MIN., OPTICAL SOUND, BLACK & WHITE.

ABSTRACT: TELLS THE STORY OF WATER - ITS NUMEROUS VALUES AND ITS POTENTIAL DESTRUCTIVE POWER WHEN UNCONTROLLED. IT DEVELOPS THE THEME THAT WATER IS ESSENTIAL TO ALL LIFE AND THAT THE MOST VALUABLE WATER IS THAT WHICH SOAKS INTO THE GROUND WHERE IT FALLS AS RAIN OR SNOW WHILE THE MOST DESTRUCTIVE WATER IS PERMITTED TO RUN OFF UNCONTROLLED FROM THE GROUND WHERE IT FALLS.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $36.25)

INSTITUTION NAME: U.S. DEPARTMENT OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW002546

PUBLICATION DATE: 53

TITLE: WATER PURIFICATION- INTRODUCTION.

DESCRIPTOR: *AUDIOVISUAL AIDS; *DISINFECTION; DISTILLATION; *FILMS; FILTRATION; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *WATER QUALITY; *WATER SUPPLY

DESCRIPTIVE NOTE: (TITLE NO. 794010) (AGENCY NO. MN07489A) 16MM, 10 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: EMPHASIZES THE IMPORTANCE OF DISINFECTING WATER, EXPLAINS THE VARIOUS SOURCES OF WATER AND THE STEPS REQUIRED TO PROVIDE A SAFE WATER SUPPLY, AND MENTIONS BRIEFLY DIATOMITE FILTERS AND DISTILLING EQUIPMENT.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $36.25)

INSTITUTION NAME: NAVAL FACILITIES ENGINEERING COMMAND.

IRIS ACCESSION NUMBER: EW002547

PUBLICATION DATE: 64

TITLE: WATERS FROM THE MOUNTAIN.

DESCRIPTOR: *AUDIOVISUAL AIDS; FILMS; HYDROLOGY; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; *METEOROLOGY; POST SECONDARY EDUCATION; *SNOW; *WATER RESOURCES

DESCRIPTIVE NOTE: (TITLE NO. 004016) (AGENCY NO. 5226) 16MM, 20 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: THE MOST VITAL JOB OF THE SNOW SURVEYOR IS TO MEASURE WATER CONTENT IN SNOW AND DETERMINE HOW MUCH WATER TO EXPECT WHEN THE SNOW MELTS. HE DETERMINES WATER AVAILABLE FOR POWER, IRRIGATION, WATERSHED PROJECTS, RECREATIOM, FLOOD CONTROL, AND OTHER USES FOR WATER.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $173.00)

INSTITUTION NAME: U.S. DEPARTMENT OF AGRICULTURE.

IRIS ACCESSION NUMBER: EW002548

PUBLICATION DATE: 43

TITLE: WATER-FRIEND OR ENEMY.

DESCRIPTOR: *AUDIOVISUAL AIDS; *FILMS; *GROUNDWATER; *INSTRUCTIONAL FILMS; *INSTRUCTIONAL MATERIALS; POST SECONDARY EDUCATION; *WATER WELLS; *WATER QUALITY

DESCRIPTIVE NOTE: (TITLE NO. 792225) (AGENCY NO. 10077) 16MM, 10 MIN., OPTICAL SOUND, COLOR.

ABSTRACT: USES ANIMATION TO ILLUSTRATE CORRECT MEASURES FOR KEEPING SPRING AND WELL WATER FROM BECOMING CONTAMINATED.

AVAILABILITY: NATIONAL AUDIOVISUAL CENTER, REFERENCE SECTION, GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C. 20409 (PURCHASE PRICE: $58.00)

IRIS ACCESSION NUMBER: EW002557

PUBLICATION DATE: 73

TITLE: WELDING TECHNOLOGY.

PERSONAL AUTHOR: GIACHINO, J. W.; WEEKS, W.

DESCRIPTOR: *INSTRUCTION; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *METALS; *METAL WORK; *WELDING

DESCRIPTIVE NOTE: 496P. (ISBN 0-8269-3063-8) 2ND ED.; ILLUST.

ABSTRACT: SUPPLIES THE BACKGROUND THAT ENABLES THE WELDER TO MAKE THE DECISIONS AND JUDGEMENTS EXPECTED OF THE "PRO".

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $9.90

IRIS ACCESSION NUMBER: EW002574

PUBLICATION DATE: 76

TITLE: INDUSTRIAL WASTEWATER AND WASTES.

PERSONAL AUTHOR: GORANSSON.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *INDUSTRIAL WASTES; *POLLUTION; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL.

DESCRIPTIVE NOTE: 36P. (ISBN 0-08-020954-8 H)

ABSTRACT: MAIN LECTURES PRESENTED AT THE 2ND INTERNATIONAL CONGRESS ON INDUSTRIAL WASTEWATER AND WASTES, STOCKHOLM, SWEEDEN, FEBRUARY 1975.

AVAILABILITY: PERGAMON PRESS, MAXWELL HOUSE, FAIRVIEW PARK, ELMSFORD, NY 10523 ($45.00)

IRIS ACCESSION NUMBER: EW002590

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL MERCURY PROBLEM.

PERSONAL AUTHOR: DITRI, F. M.

DESCRIPTOR: *ENVIRONMENT; *LITERATURE REVIEWS; *MERCURY; *METALS; *POLLUTION

DESCRIPTIVE NOTE: 136P. CAT. NO. 5024 FC; ISBN 0-87819-005-8

ABSTRACT: EXTENSIVE REVIEW OF THE LITERATURE PERTINENT TO THE MERCURY CONTAMINATON PROBLEM. RECOMMENDATIONS AND CONCLUSIONS CONTAINED THEREIN FORMED THE BASIS OF TOXIC SUBSTANCES BILL TO BE INTRODUCED INTO THE MICHIGAN HOUSE OF REPRESENTATIVES.

AVAILABILITY: CRC PRESS, INC., 18901 CRANWOOD PARKWAY, CLEVELAND, OH 44128 ($29.50)

IRIS ACCESSION NUMBER: EW002608

PUBLICATION DATE: 75

TITLE: COMPLETE GUIDE TO BUILDING AND PLANT MAINTENANCE.

PERSONAL AUTHOR: SACK, T.F

DESCRIPTOR: *BUDGETING; COSTS; *EQUIPMENT; *INSPECTION; *MAINTENANCE; *PLANNING; *SAFETY

DESCRIPTIVE NOTE: 75 HOW-TO-DO-IT SECTIONS, 48 PHOTOS, 130 FORMS, TABLES, CHARTS AND CHECKLISTS

ABSTRACT: HANDBOOK ON MANY CLEANING AND MAINTENANCE JOBS. SHOWS HOW TO LENGTHEN THE LIFE OF EQUIPMENT, PREVENT EMERGENCIES AND THEIR HIGH COST REPAIRS, REDUCE OVERTIME PAY, SAVE MONEY WHEN BUYING MATERIALS AND EQUIPMENT. COVERS HUNDREDS OF CLEANING AND MAINTENANCE JOBS AND SHOWS WHAT THE JOB INVOLVES; EFFICIENT WORK METHODS; MAN-HOURS OF LABOR REQUIRED; FREQUENCY SCHEDULE FOR DOING THE WORK; EQUIPMENT NEEDED PER MAN AND PERFORMANCE INSPECTION STANDARDS.

AVAILABILITY: PRENTICE HALL, ENGLEWOOD CLIFFS, NJ 07632 ($32.95)

IRIS ACCESSION NUMBER: EW002612

PUBLICATION DATE: JUN 76

TITLE: BIOLOGICAL CONTROL OF WATER POLLUTION.

PERSONAL AUTHOR: TOUBIER, J.; PIERSON, R.W

DESCRIPTOR: AQUIFERS; *BIOLOGICAL TREATMENT; *INSTRUCTIONAL MATERIALS; *LIMNOLOGY; OPERATIONS(WASTEWATER); *POLLUTION; POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: (OSBN 0-8122-7709-0)(LC 76-8593)

ABSTRACT: CONTAINS CHAPTERS ON: (1) A RATIONALE FOR THE BIOLOGICAL APPROACH; (2) LIMNOLOGICAL OVERVIEW; (3) DRINKING WATER PROBLEMS; (4) BIOLOGICAL TREATMENT OF WASTEWATER; (5) BIOLOGICAL TREATMENT AND AQUIFER RECHARGE; AND (6) IMPLEMENTATION OF ALTERNATIVES.

AVAILABILITY: UNIVERSITY OF PENNSYLVANIA PRESS, 3933 WALNUT ST., PHILADELPHIA, PA 19174 ($20.00)

IRIS ACCESSION NUMBER: EW002649

PUBLICATION DATE: 72

TITLE: METHODS FOR ANALYSIS OF ORGANIC SUBSTANCES IN WATER.

PERSONAL AUTHOR: GOERLITZ, D. F.; BROWN, E.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *LABORATORY PROCEDURES; *ORGANIC CHEMISTRY; *PLANNING; *RESEARCH METHODOLOGY; *WATER RESOURCES

ABSTRACT: DESCRIBES PROCEDURES FOR PLANNING AND EXECUTING SPECIALIZED WORK IN WATER RESOURCES INVESTIGATIONS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402 PRICE:$.90

IRIS ACCESSION NUMBER: EW002713

PUBLICATION DATE: 76

TITLE: ENVIRONMENTAL PLANNING: A GUIDE TO INFORMATION SOURCES.

PERSONAL AUTHOR: MESHENBERG, M.J
DESCRIPTOR: *BIBLIOGRAPHIES; ENVIRONMENT; EROSION; FLOODS; GROUNDWATER; *PLANNING; URBAN AREAS; *WATER QUALITY; *WATER RESOURCES; *WATERSHEDS

DESCRIPTIVE NOTE: 492P.

ABSTRACT: FOCUSES ON CONCEPTS, PRINCIPLES, AND ESPECIALLY TECHNIQUES WHICH PROMOTE A NEW PERSPECTIVE IN THE PLANNING PROCESS: THAT WE ARE A PART OF OUR ENVIRONMENT AND MUST PRESERVE AND PROTECT IT. THE LARGEST OF THE 19 CHAPTERS COVERS WATER IN THE PLANNING PROCESS. THIS WORK WAS COMPILED WITH THE NEEDS OF PROFESSIONAL PLANNERS IN MIND, AND ITS RANGE OF COVERAGE WILL MAKE IT USEFUL TO PLANNING OFFICIALS AS WELL. VOLUME 3 IN GALE'S MAN AND THE ENVIRONMENT GUIDE SERIES.

AVAILABILITY: GALE RESEARCH CO., BOOK TOWER, DETROIT, MI 48226 PRICE: $22.00

IRIS ACCESSION NUMBER: EW002718

PUBLICATION DATE: 76

TITLE: PHOSPHORUS REMOVAL.

DESCRIPTOR: *OPERATIONS (WASTEWATER); *PHOSPHORUS; SEWAGE; *WASTEWATER TREATMENT.

DESCRIPTIVE NOTE: 4P. BROCHURE #F 3778A

ABSTRACT: PHOSTRIP, A PROCESS FOR REMOVAL OF PHOSPHORUS IN SEWAGE TREATMENT PLANTS, IS DESCRIBED.

AVAILABILITY: UNION CARBIDE ENVIRONMENTAL SYSTEMS., 120 S. RIVERSIDE PLAZA, CHICAGO, IL 60606 PRICE: FREE

IRIS ACCESSION NUMBER: EW002719

PUBLICATION DATE: 76

TITLE: AEROBIC DIGESTION USING HIGH PURITY OXYGEN.

DESCRIPTOR: *AEROBIC DIGESTION; *OPERATIONS (WASTEWATER); *OXYGEN; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 4P. BROCHURE #F 3981

ABSTRACT: A HIGH RATE COST EFFECTIVE SYSTEM FOR PASTEURIZING AND STABILIZING SLUDGE.

AVAILABILITY: UNION CARBIDE ENVIRONMENTAL SYSTEMS, 120 S. RIVERSIDE PLAZA, CHICAGO, IL 60606 PRICE: FREE

IRIS ACCESSION NUMBER: EW002720
PUBLICATION DATE: 77

TITLE: UNOX OZONATION.

DESCRIPTOR: *DISINFECTION; *OZONE; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 4P. BROCHURE #F 3774A

ABSTRACT: UNION CARBIDE PROCESS DESCRIPTION OF OZONE DISINFECTING WASTEWATERS.

AVAILABILITY: UNION CARBIDE ENVIRONMENTAL SYSTEMS., 120 S. RIVERSIDE PLAZA, CHICAGO, IL 60606 PRICE: FREE

IRIS ACCESSION NUMBER: EW002722

PUBLICATION DATE: 71

TITLE: ENTRAPPED AIR IN PIPELINES (PRESSURE SURGE).

DESCRIPTOR: AUDIOVISUAL AIDS; FILMS; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *OPERATIONS (WATER); *PIPES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 16MM, 17 MIN., COLOR.

ABSTRACT: RESEARCH STUDY BY COLORADO STATE UNIVERSITY ON CAUSES AND EFFECTS OF ENTRAPPED AIR WITHIN A PIPELINE SYSTEM. WHEN ENTRAPPED AIR IS SUDDENLY RELEASED, IT CAN GENERATE SEVERE WATER HAMMER. RECOMMENDATIONS, PROCEDURES AND SOLUTIONS.

AVAILABILITY: JOHNS MANVILLE, GREENWOOD PLAZA, DENVER, COLORADO 80217 PRICE: FREE LOAN

IRIS ACCESSION NUMBER: EW002727

PUBLICATION DATE: 74

TITLE: POLLUTION CONTROL IN THE MARINE INDUSTRIES.

DESCRIPTOR: *CONFERENCES; ENVIRONMENTAL PROTECTION AGENCY; GREAT LAKES; *INDUSTRIES; INTERNATIONAL ACTIVITIES; *MARINE POLLUTION CONTROL; *OCEANOLOGY; OIL SPILLS; POLLUTION; *POLLUTION CONTROL; *REGULATIONS

DESCRIPTIVE NOTE: 439P. 27 SEPARATE PAPERS.

ABSTRACT: THIS IS THE 1974 PROCEEDINGS COVERING THE FOURTH CONFERENCE (MAY 14-16, 1974) ON POLLUTION CONTROL IN THE MARINE INDUSTRIES. THE ENTIRE FIELD IS COVERED WITH PAPERS PREPARED BY LEADING AUTHORITIES. INCLUDES: CLEAN WATER BY THE 1980'S; INTERNATIONAL EFFORTS FOR MARINE POLLUTION CONTROL; MARINE POLLUTION CONTROL; EPA'S REGULATORY EFFORTS TO ABATE MARINE POLLUTION; EPA, ENERGY AND THE FUTURE; IMPACT OF THE 1973 IMCO CONVENTION ON THE MARITIME INDUSTRY; GREAT LAKES POLLUTION CONTROL PROGRESS; OCEAN TANKER

POLLUTION PREVENTION EXPERIENCE; AND OTHERS.

AVAILABILITY: GOVERNMENT INSTITUTES, 4733 BETHESDA AVE. NW, BETHESDA, MD 20014 PRICE: $9.50

IRIS ACCESSION NUMBER: EW002737

PUBLICATION DATE: 74

TITLE: DIESEL AND HIGH COMPRESSION GAS ENGINES.

PERSONAL AUTHOR: KATES E. J.; LUCK W. E.

DESCRIPTOR: DESIGN; *DIESEL ENGINES; *ENGINES; *INSTRUCTIONAL MATERIALS; *MAINTENANCE.

DESCRIPTIVE NOTE: 496P. (ISBN 0-8269-0203-0) 3RD ED., 375 ILLUST.

ABSTRACT: GIVES DETAILED AND COMPREHENSIVE INSTRUCTION IN THE DIESEL FIELD. WRITTEN FOR ANYONE ASSOCIATED WITH DIESEL ENGINES, WHETHER IN DESIGN, MANUFACTURE, OPERATION, OR MAINTENANCE.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637

IRIS ACCESSION NUMBER: EW002738

PUBLICATION DATE: 76

TITLE: NATIONAL ELECTRICAL CODE BLUEPRINT READING.

PERSONAL AUTHOR: GEBERT K.L.

DESCRIPTOR: *BLUEPRINTS; *DRAFTING; *ELECTRICITY; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *TECHNICAL EDUCATION.

DESCRIPTIVE NOTE: 192P.

ABSTRACT: DESIGNED FOR THE CLASSROOM TO: (1) INTERPRET SIMPLY AND VISUALLY THE SEMI-LEGAL PROVISIONS AND LANGUAGE OF THE NATIONAL ELECTRICAL CODE; (2) TEACH ELECTRICAL BLUEPRINT READING AS A NATURAL BY-PRODUCT OF THIS STUDY; AND (3) TEACH THE METHODS OF CALCULATING LOAD REQUIREMENTS IN CONFORMANCE WITH THE CODE.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH ST., CHICAGO, IL 60637 PRICE: $9.95

IRIS ACCESSION NUMBER: EW002739

PUBLICATION DATE: 72

TITLE: BUILDING TRADES BLUEPRINT READING: PART 1, FUNDAMENTALS.

PERSONAL AUTHOR: SUNDBERG, E. W.

DESCRIPTOR: *BLUEPRINTS; *CONSTRUCTION; *DRAFTING; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS.

DESCRIPTIVE NOTE: 184P.

ABSTRACT: COMPLETE COURSE IN BASIC PRINT READING FOR CONSTRUCTION TECHNOLOGY AND THE BUILDING TRADES. TEACHES NOT ONLY THE FUNDAMENTALS, BUT ALSO IN-DEPTH PRACTICES OF CONSTRUCTION PRINT READING. DESIGNED EITHER FOR CLASS USE OR INDIVIDUAL LEARNING. SELF-CHECK QUIZZES, COMPETENCY TESTS, AND A FINAL EXAMINATION BASED UPON A SET OF ACTUAL RESIDENTIAL PRINTS.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $5.85

IRIS ACCESSION NUMBER: EW002740

PUBLICATION DATE: 74

TITLE: BUILDING TRADES BLUEPRINT READING: PART 2, RESIDENTIAL AND LIGHT COMMERCIAL CONSTRUCTION.

PERSONAL AUTHOR: SUNDBERG, E. W.

DESCRIPTOR: *BLUEPRINTS; *CONSTRUCTION; *DRAFTING; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS

DESCRIPTIVE NOTE: 250P.

ABSTRACT: PART 2 IS A NATURAL SEQUEL TO PART 1. MORE COMPLEX RESIDENTIAL CONSTRUCTION AND THE TECHNIQUES OF COMMERCIAL CONSTRUCTION ARE INTRODUCED. TWO SETS OF LARGE FOLD-OUT RESIDENTIAL PLANS AND 2 SETS OF COMMERCIAL PRINTS ARE USED TO BRING REALISM TO THE INSTRUCTION. REGIONAL DIFFERENCES ARE RECOGNIZED.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637, PRICE: $8.05

IRIS ACCESSION NUMBER: EW002741

PUBLICATION DATE: 73

TITLE: BUILDING TRADES BLUEPRINT READING: PART 3, GENERAL CONSTRUCTION SPECIFICATIONS.

PERSONAL AUTHOR: SUNDBERG, E. W.

DESCRIPTOR: *BLUEPRINTS; *CONSTRUCTION; *DRAFTING; *INDIVIDUALIZED INSTRUCTION; *INSTRUCTIONAL MATERIALS

DESCRIPTIVE NOTE: 278P.

ABSTRACT: HEAVY AND COMMERCIAL CONSTRUCTION HAS BECOME A MAJOR PORTION OF THE TOTAL CONSTRUCTION INDUSTRY CREATING A DEMAND FOR TECHNICIANS AND CRAFTSMEN WHO CAN INTERPRET THESE SPECIALIZED DRAWINGS. MAY BE USED FOR CLASS INSTRUCTION OR INDIVIDUAL LEARNING. FOLD-OUT HEAVY-CONSTRUCTION PRINTS ARE USED TO SIMULATE ON-THE-JOB CONDITIONS. NEW TRENDS.

MATERIALS, AND USES OF PREFABRICATED COMPONENTS AND MODULES ARE DISCUSSED.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $9.25

IRIS ACCESSION NUMBER: EW002742

PUBLICATION DATE: 70

TITLE: LOW PRESSURE BOILERS.

PERSONAL AUTHOR: STEINGRESS, F. M.

DESCRIPTOR: *BOILERS; *EQUIPMENT; *INSTRUCTIONAL MATERIALS; *JOB SKILLS

DESCRIPTIVE NOTE: 176P.

ABSTRACT: PRACTICAL, COMMON SENSE TRAINING OF STATIONARY ENGINEERS AND OPERATORS OF BOILERS FOR SCHOOLS, APARTMENT BUILDINGS, HOTELS, COMMERCIAL BUILDINGS, INSTITUTIONS, AND PUBLIC BUILDINGS. EMPHASIS IS ON SAFE, SMOKE-CONTROLLED OPERATION.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $5.65

IRIS ACCESSION NUMBER: EW002743

PUBLICATION DATE: 60

TITLE: HOW TO DESIGN AND INSTALL PLUMBING.

PERSONAL AUTHOR: MATTHIAS, A. J.; SMITH, E.

DESCRIPTOR: *CONSTRUCTION; DESIGN; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *PLUMBING

DESCRIPTIVE NOTE: 456P.

ABSTRACT: PRESENTS PUBLIC AND PRIVATE DRAINAGE SYSTEMS, TRAPS AND VENTING, AND TYPES OF INSTALLATION ACCEPTABLE UNDER PLUMBING CODES. STUDENTS LEARN MATERIALS USED FOR HOT AND COLD WATER SYSTEMS, HOUSE DRAINS AND STORM DRAINS, TYPES OF PLUMBING FIXTURES AND OTHER SPECIAL EQUIPMENT.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $5.90

IRIS ACCESSION NUMBER: EW002744

PUBLICATION DATE: 74

TITLE: TRANSFORMERS.

PERSONAL AUTHOR: GEBERT, K. L.; EDWARDS, K. R.

DESCRIPTOR: CONSTRUCTION; *ELECTRICITY; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MAINTENANCE: *TRANSFORMERS

DESCRIPTIVE NOTE: 352P.

ABSTRACT: THOROUGH AND BASIC PRESENTATION OF THE CONSTRUCTION, OPERATION, INSTALLATION, AND MAINTENANCE OF TRANSFORMERS.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $10.45

IRIS ACCESSION NUMBER: EW002746

PUBLICATION DATE: 75

TITLE: INSTRUCTORS AND THEIR JOBS.

PERSONAL AUTHOR: MILLER, W. R.; ROSE, H. C.

DESCRIPTOR: VISUAL AIDS; INDIVIDUALIZED INSTRUCTION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; *TEACHER EDUCATION; *TECHNICAL EDUCATION

DESCRIPTIVE NOTE: 334P.

ABSTRACT: INCLUDES THE BASIC CONCEPTS OF WHAT IT TAKES TO MAKE A GOOD INSTRUCTOR. MATERIAL ON AUDIO-VISUAL PRESENTATIONS AND TEACHING MACHINES IS PRESENTED. ALTHOUGH TECHNICALLY ORIENTED, THE TEACHING CONCEPTS APPLY TO ANY CLASSROOM SITUATION. DEFINES THE INSTRUCTOR'S ROLE IN TRAINING PROGRAMS.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO IL 60637 PRICE: $10.65

IRIS ACCESSION NUMBER: EW002747

PUBLICATION DATE: 76

TITLE: FIFTY HINTS FOR TEACHERS OF VOCATIONAL SUBJECTS.

PERSONAL AUTHOR: BASS, M. R.

DESCRIPTOR: *INSTRUCTION; *INSTRUCTIONAL MATERIALS; *TEACHER EDUCATION; TECHNICAL EDUCATION; *VOCATIONAL EDUCATION

DESCRIPTIVE NOTE: 64P.

ABSTRACT: PRESENTS BRIEF, TO-THE-POINT TEACHING HINTS FOR VOCATIONAL TEACHERS.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, ILLINOIS 60637 PRICE: 10 FOR $50.00

IRIS ACCESSION NUMBER: EW002748

PUBLICATION DATE: 73

TITLE: PRACTICAL MATHEMATICS.

PERSONAL AUTHOR: HABBS, G. M.; MCKINNEY, J.

DESCRIPTOR: ALGEBRA; ARITHMETIC; *INSTRUCTIONAL MATERIALS; *MATHEMATICAL APPLICATIONS; *MATHEMATICS; TRIGONOMETRY

DESCRIPTIVE NOTE: 600P.

ABSTRACT: FOR THOSE WHO NEED A GOOD GROUNDING IN BASIC MATH PRINCIPLES, EITHER BECAUSE THEY HAD FORGOTTEN OR HAD FAILED TO MASTER THEM. FROM ADDITION TO PRACTICAL TRIGONOMETRY, THE TEXT USES STEP-BY-STEP INSTRUCTION.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $8.05

IRIS ACCESSION NUMBER: EW002749

PUBLICATION DATE: 73

TITLE: EVERYDAY SKETCHING AND DRAFTING.

PERSONAL AUTHOR: GIACHINO, J. W.; BEUKEMA, H. J.

DESCRIPTOR: *DRAFTING; *DRAWING; *INDUSTRIAL ARTS; *INSTRUCTION; *INSTRUCTIONAL MATERIALS

DESCRIPTIVE NOTE: 172P.

ABSTRACT: UPON *THE CONCLUSION* OF THIS EXPLORATORY COURSE, THE STUDENT WILL HAVE ACQUIRED TWO BASIC SKILLS WHICH HE WILL USE THE REST OF HIS LIFE--THE ABILITY TO MAKE A FREEHAND SKETCH AND THE ABILITY TO READ AND INTERPRET DRAWINGS. IN ADDITION, HE IS INTRODUCED TO DRAFTING EQUIPMENT AND INSTRUMENTS AND THEIR USE. ORIGINALLY DESIGNED FOR THE FIRST COURSE IN INDUSTRIAL ARTS, IT HAS ALSO FOUND ACCEPTANCE IN ADULT PROGRAMS.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $5.30

IRIS ACCESSION NUMBER: EW002751

PUBLICATION DATE: 75

TITLE: ACCIDENT PREVENTION MANUAL FOR TRAINING PROGRAMS.

PERSONAL AUTHOR: STRONG, M. S.

DESCRIPTOR: *ACCIDENT PREVENTION; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; LAWS; REGULATIONS; *SAFETY

DESCRIPTIVE NOTE: 600P. (ISBN 0-8269-4517-1) 2ND ED.; ILLUST

ABSTRACT: TWENTY RECOGNIZED EXPERTS HAVE POOLED THEIR KNOWLEDGE TO PRODUCE THIS MANUAL. FEDERAL REGULATIONS, OSHA, AND SAFETY PRACTICES HAVE UNDERSCORED THE NEED FOR THIS BOOK; EVERY EFFORT WAS MADE TO MAKE IT COMPLETE.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $16.00

IRIS ACCESSION NUMBER: EW002752

PUBLICATION DATE: 75

TITLE: INSTRUMENTATION.

PERSONAL AUTHOR: GEBERT, J. L.; EDWARDS, K. R.

DESCRIPTOR: *DATA ANALYSIS; *FLOW MEASUREMENT; *HUMIDITY; *INSTRUMENTATION; *INSTRUCTIONAL MATERIALS; *PRESSURE; *TEMPERATURE

DESCRIPTIVE NOTE: 384P. (ISBN 0-8269-3422-6) 3RD ED.; ILLUST.; SOFT COVER.

ABSTRACT: FOR ANYONE CONCERNED WITH THE MEASUREMENT OR CONTROL OF TEMPERATURE, PRESSURE, LEVEL FLOW, HUMIDITY, AND THE ANALYSIS OR INTERPRETATION OF DATA FROM INSTRUMENTS. COVERS APPLICATION AS WELL AS THEORY. FOR THE STUDENT WHO WISHES EMPLOYMENT IN THE MULTITUDE OF INDUSTRIES THAT DEPEND ON INSTRUMENTS.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $10.65

IRIS ACCESSION NUMBER: EW002753

PUBLICATION DATE: 67

TITLE: MATHEMATICS FOR INDUSTRY.

PERSONAL AUTHOR: HOBBS, G. M.; MCKINNEY, J.

DESCRIPTOR: ALGEBRA; ARITHMETIC; ENGINEERING; GEOMETRY; *INSTRUCTIONAL MATERIALS; *MATHEMATICAL APPLICATIONS; *MATHEMATICS; TRIGONOMETRY

DESCRIPTIVE NOTE: 604P. (ISBN 0-8269-2200-7) 3RD ED.; ILLUST.; STUDENT GUIDE COST $2.25.

ABSTRACT: BEGINNING WITH A REVIEW OF COMMON AND DECIMAL FRACTIONS, THIS TEXT PRESENTS IN SIMPLIFIED FORM THE MATHEMATICS MOST OFTEN NEEDED IN THE FIELD OF PRACTICAL ENGINEERING AND SHOP PRACTICE. IT APPLIES ARITHMETIC, ALGEBRA, GEOMETRY, AND TRIGONOMETRY TO JOBS ENCOUNTERED IN EVERYDAY INDUSTRY.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $8.05

IRIS ACCESSION NUMBER: EW002755

PUBLICATION DATE: 70

TITLE: CASEBOOK ON ADMINISTRATION AND SUPERVISION IN INDUSTRIAL TECHNICAL EDUCATION.

PERSONAL AUTHOR: BROWN, B. W.

DESCRIPTOR: *ADMINISTRATION; *CASE STUDIES; *INSTRUCTION; *INSTRUCTIONAL MATERIALS; INDUSTRY; *SUPERVISION; TECHNICAL EDUCATION

DESCRIPTIVE NOTE: 120P. (ISBN 0-8269-4040-4)

ABSTRACT: INCLUDED ARE 66 TYPICAL CASES INVOLVING SUPERVISORY OR ADMINISTRATIVE JUDGMENT FOR CLASS DISCUSSION OR INDIVIDUAL ASSIGNMENT. NO "PAT" OR "CORRECT" SOLUTIONS ARE GIVEN, FOR THE VARIETY OF APPROACHES IS BOUNDLESS.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY, 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $4.25

IRIS ACCESSION NUMBER: EW002756

PUBLICATION DATE: 73

TITLE: WRITING FOR INDUSTRY.

PERSONAL AUTHOR: TRACY, R. C.; JENNINGS, H. L.

DESCRIPTOR: *INDUSTRY; *INSTRUCTIONAL MATERIALS; *LANGUAGE ARTS; *TECHNICAL WRITING; *WRITING

DESCRIPTIVE NOTE: 286P. (ISBN 0-8269-4534-1) ILLUST; STUDENT GUIDE AVALIABLE AT $2.00.

ABSTRACT: TEACHES THE ESSENTIALS OF CLEAR AND CONCISE WRITING IN MODERN INDUSTRY. THIS IS DONE AS DIRECTLY AND SIMPLY AS POSSIBLE USING EXAMPLES FOUND ON THE JOB IN ALL PHASES OF INDUSTRY. THIS TEXT MAY LOGICALLY BE SUBSTITUTED FOR A TRADITIONAL "ENGLISH COMPOSITION" TEXT FOR CAREER-ORIENTED STUDENTS.

AVAILABILITY: AMERICAN TECHNICAL SOCIETY., 848 EAST 58TH STREET, CHICAGO, IL 60637 PRICE: $7.25

IRIS ACCESSION NUMBER: EW002763

PUBLICATION DATE: 75

TITLE: IMPACTS OF NUCLEAR RELEASES INTO THE AQUATIC ENVIRONMENT.

DESCRIPTOR: NUCLEAR REACTORS; *OCEANOLOGY; *RADIOACTIVITY; *RIVERS; *WATER POLLUTION CONTROL; *WATER RESOURCES; *WORLD PROBLEMS

DESCRIPTIVE NOTE: 524P. (STI/PUB 406)

ABSTRACT: THE IMPACT OF THE NUCLEAR INDUSTRY ON MAN AND HIS ENVIRONMENT IS A TOPIC OF MAJOR CONCERN--PARTICULARLY IN LIGHT OF THE PROJECTED INCREASE IN THE NUMBER OF NUCLEAR FACILITIES WORLDWIDE. THIS BOOK FOCUSES ON: (1) BEHAVIOR OF BOTH RADIONUCLIDES AND THEIR CORRESPONDING STABLE ISOTOPES IN FRESH WATER, ESTUARIES, AND SEA WATER, AND (2) PRESENT AND FUTURE PROBLEMS OF SAFE CONTROL.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 PRICE: $30.00

IRIS ACCESSION NUMBER: EW002764

PUBLICATION DATE: 74

TITLE: MATHEMATICAL MODELS IN HYDROLOGY.

DESCRIPTOR: *CONFERENCE REPORTS; *HYDROLOGY; LAKES; *MODELS; RIVERS; *WATER RESOURCES; *WATER STORAGE.

DESCRIPTIVE NOTE: 1357P. THREE VOLUME SET

ABSTRACT: PROCEEDINGS OF THE WARSAW SYMPOSIUM ON MATHEMATICAL MODELS IN HYDROLOGY ARE PRESENTED IN THREE VOLUMES: THE FIRST TWO VOLUMES CONTAIN THE SCIENTIFIC PAPERS AND THE THIRD CONTAINS THE GENERAL REPORTS AND DISCUSSIONS OF THE SYMPOSIUM. TOPICS INCLUDE: STRUCTURAL ANALYSIS OF HYDROLOGICAL SEQUENCES; STATISTICAL TECHNIQUES; MULTIDIMENSIONAL STOCHASTIC PROCESSES IN HYDROLOGY; STOCHASTIC ANALYSIS OF WATER STORAGE PROBLEMS; THE FITTING OF CONCEPTUAL CATCHMENT MODELS OF RIVER SYSTEMS, LAKES AND ESTUARIES; AND MORE.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 PRICE: $66.00

IRIS ACCESSION NUMBER: EW002765

PUBLICATION DATE: 74

TITLE: INTERCOMPARISON OF CONCEPTUAL MODELS USED IN OPERATIONAL HYDROLOGICAL FORECASTING.

DESCRIPTOR: *HYDROLOGY; *MODELS; *SYSTEMS ANALYSIS

DESCRIPTIVE NOTE: 172P. (OHR 7)

ABSTRACT: PROVIDES INFORMATION AND GUIDANCE ON THE USE OF MODELS IN HYDROLOGICAL FORECASTING. IT WEIGHS THE RELATIVE ADVANTAGES AND DISADVANTAGES OF THE MANY CONCEPTUAL MODELS PROPOSED FOR OPERATIONAL USE. TOPICS INCLUDE: CLASSIFICATION AND DESCRIPTION OF MODELS SUBMITTED FOR INTERCOMPARISON; DATA SETS AND THEIR LIMITATIONS-- DESCRIPTIONS, IDENTIFICATION OF PROBLEMS; INTERCOMPARISON TEST RESULTS--VERIFICATION CRITERIA, GRAPHICAL VERIFICATION CURVES, LIMITATIONS.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 PRICE: $12.00

IRIS ACCESSION NUMBER: EW002766

PUBLICATION DATE: 75

TITLE: HYDROLOGICAL FORECASTING PRACTICES.

DESCRIPTOR: *DATA ANALYSIS; *FLOODS; *FORECASTING; *HYDROLOGY; *RIVERS

DESCRIPTIVE NOTE: 134P. (OHR 6)

ABSTRACT: DESCRIBES BASIC PRINCIPLES, TECHNIQUES, AND METHODS OF HYDROLOGICAL FORECASTING. INCLUDES: METHODOLOGY; SOURCES, COLLECTION, AND TRANSMISSION OF DATA; FORECASTING RAINFALL-INDUCED FLOODS; FORECASTS OF STAGE AND DISCHARGE; SPRING HIGH WATER OF LOWLAND RIVERS; FREEZE-UP OF ICE; FORECAST EVALUATION.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 PRICE: $11.50

IRIS ACCESSION NUMBER: EW002768

PUBLICATION DATE: 76

TITLE: WATER AND LAND USE DEVELOPMENT AND THE AQUATIC ENVIRONMENT PROBLEMS AND SOLUTIONS.

DESCRIPTOR: *ENVIRONMENT; *ENVIRONMENTAL QUALITY; *LAND USE; *WATER RESOURCES; *WATER QUALITY

DESCRIPTIVE NOTE: 10P. (FTP 141)

ABSTRACT: DESCRIBES SOME OF THE WAYS IN WHICH WATER AND LAND DEVELOPMENT HARMS AQUATIC RESOURCES, AND WAYS TO AVOID OR REDUCE SUCH DAMAGE.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 PRICE: $2.00

IRIS ACCESSION NUMBER: EW002769

PUBLICATION DATE: 74

TITLE: GROUND WATER STORAGE AND ARTIFICIAL RECHARGE.

DESCRIPTOR: *CASE STUDIES; ENVIRONMENT; *GROUNDWATER; HYDROLOGY; *MANAGEMENT; *REGULATIONS; *WATER RESERVOIRS; *WATER STROAGE.

DESCRIPTIVE NOTE: 270P.

ABSTRACT: PROVIDES AN OVERALL VIEW OF GROUND WATER STORAGE AND ARTIFICIAL RECHARGE, AND COVERS SCIENTIFIC, TECHNICAL, ECONOMIC, LEGAL, AND ENVIRONMENTAL ASPECTS. INCLUDES: CASE STUDIES OF GROUND WATER AND ARTIFICIAL RECHARGE PROJECTS; GROUND WATER RESERVOIRS--STRUCTURE, DISCHARGE, REPLENISHMENT, STORAGE, CHEMICAL AND HYDRAULIC FACTORS; EXPLOITATION OF GROUND WATER STORAGE; ARTIFICIAL RECHARGE PRINCIPLES; MANAGEMENT CONSIDERATIONS.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 PRICE: $14.00

IRIS ACCESSION NUMBER: EW002770

PUBLICATION DATE: 76

TITLE: DEMAND FOR WATER PROC AND METH FOR PROJ WATER DEMANDS IN THE CONTEXT OF REG AND NATL PLANNING.

DESCRIPTOR: AGRICULTURE; DEVELOPING COUNTRIES; INDUSTRY; MUNICIPALITIES; *PLANNING; *POLICIES; *REGIONAL PLANNING; RECREATION; UNITED STATES; WASTE DISPOSAL; *WATER DEMAND; *WATER RESOURCES; *WATER SUPPLY; WATER USE.

DESCRIPTIVE NOTE: 240P.

ABSTRACT: FOCUSES ON THE NEED FOR NATIONAL AND REGIONAL WATER DEMAND PROJECTIONS AS A BASIS FOR LONG RANGE PLANNING AND POLICY FORMATION. SOME OF THE TOPICS DISCUSSED INCLUDE: TRENDS IN WATER USES; MAJOR CATEGORIES OF WATER DEMAND; OBJECTIVES OF REGIONAL ASSESSMENT OF WATER DEMAND; WATER DEMANDS OF HUMAN SETTLEMENTS; AGRICULTURAL WATER DEMANDS; INDUSTRIAL WATER DEMANDS; WATER BASED RECREATION; WATER DEMANDS FOR WASTE DISPOSAL; WATER DEMANDS IN DEVELOPING COUNTRIES; DATA COLLECTION AND PROCESSING.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016 PRICE: $10.00

IRIS ACCESSION NUMBER: EW002771

PUBLICATION DATE: 76

TITLE: POLLUTANTS IN THE AQUATIC ENVIRONMENT: DETECTION, MEASUREMENT, AND MONITORING.

DESCRIPTOR: FISH; MARINE BIOLOGY; *MEASUREMENT; *MONITORING; *OCEANOLOGY; *PESTICIDES; *POLLUTION

DESCRIPTIVE NOTE: 109P.

ABSTRACT: PROVIDES A BROAD REVIEW OF POLLUTANTS KNOWN TO BE HAZARDOUS TO MARINE LIFE AND FISHERIES, AND DESCRIBES LATEST TECHNIQUES AND EQUIPMENT USED IN THE DETECTION, MEASUREMENT, AND MONITORING OF AQUATIC POLLUTANTS.

AVAILABILITY: UNIPUB, BOX 433, MURRAY HILL STATION, NEW YORK, NY 10016, PRICE: $7.50 (MICROFICHE ONLY)

IRIS ACCESSION NUMBER: EW002824

PUBLICATION DATE: 73

TITLE: GUARDS ILLUSTRATED. IDEAS FOR MECHANICAL SAFETY. 3RD EDITION.

DESCRIPTOR: *ACCIDENT PREVENTION; *EQUIPMENT UTILIZATION;

EQUIPMENT GUARDS; JOB SKILLS; *MATERIALS HANDLING; MANAGEMENT; *MECHANICAL EQUIPMENT; *SAFETY; *TRANSPORTATION

DESCRIPTIVE NOTE: 105P.

ABSTRACT: THIS MANUAL CONTAINS ILLUSTRATIONS, WITH BRIEF LEGENDS, OF GUARDING METHODS AND DEVICES WHICH HAVE BEEN DEVELOPED IN VARIOUS INDUSTRIAL ESTABLISHMENTS AND WHICH ARE BEING USED SUCCESSFULLY TO PREVENT INJURIES. CONTENT AREAS INCLUDE: (1) POWER TRANSMISSION; (2) POINTS OF OPERATION; (3) CONVEYORS; (4) HOISTS AND CRANES; AND (5) TRUCKS AND HEAVY EQUIPMENT.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 444 NORTH MICHIGAN AVE., CHICAGO, IL 60611 PRICE: $5.55

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002864

PUBLICATION DATE: 73

TITLE: SUPERVISOR'S SAFETY OBSERVATION HANDBOOK.

DESCRIPTOR: *ACCIDENT PREVENTION; EQUIPMENT UTILIZATION; EMERGENCY PROGRAMS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MANAGEMENT; OSHA; POST SECONDARY EDUCATION; *SAFETY; *STANDARDS; *SUPERVISION; *WORK ENVIRONMENT

DESCRIPTIVE NOTE: 19P.

ABSTRACT: THIS HANDBOOK HIGHLIGHTS THE AREAS THAT SHOULD BE PART OF THE SAFETY OBSERVATION PLAN OF PLANT SUPERVISORS. TOPIC AREAS DISCUSSED INCLUDE: OBSERVATION OF WORK PRACTICES; HOUSEKEEPING; LIGHTING; MATERIAL HANDLING; MACHINES AND EQUIPMENT; PROTECTIVE EQUIPMENT; AND EMERGENCY PLANS. A SUGGESTED 31-DAY SAFETY OBSERVATION PLAN IS INCLUDED.

AVAILABILITY: NATIONAL SAFETY COUNCIL, 425 NORTH MICHIGAN AVE., CHICAGO, IL 60611

INSTITUTION NAME: NATIONAL SAFETY COUNCIL.

IRIS ACCESSION NUMBER: EW002877

PUBLICATION DATE: 77

TITLE: COMPLETE HANDBOOK OF MAINTENANCE MANAGEMENT.

PERSONAL AUTHOR: HEINTZELMAN, J.E

DESCRIPTOR: BUDGETING; *MAINTENANCE; *PLANNING; *REFERENCE MATERIALS; *SUPERVISION

ABSTRACT: AN ENCYCLOPEDIC REFERENCE WORK AND RESOURCE GUIDE COVERING MAINTENANCE SYSTEMS AND THEIR USE. INCLUDES MATERIAL ON MAINTENANCE SUPERVISION, BUDGETING, SCHEDULING, PERFORMANCE AND ANALYSIS.

AVAILABILITY: PRENTICE HALL, ENGLEWOOD CLIFFS, NJ 07632 ($32.95)

IRIS ACCESSION NUMBER: EW002937

PUBLICATION DATE: AUG 78

TITLE: A BIOLOGISTS'S MANUAL FOR THE EVALUATION OF IMPACTS OF COAL-FIRED POWER PLANTS ON FISH, WILDLIFE, AND THEIR HABITATS.

PERSONAL AUTHOR: LEWIS, B.G.

DESCRIPTOR: AIR POLLUTION CONTROL; BIOLOGY; *ENVIRONMENTAL INFLUENCES; ENERGY; FISH; *GUIDELINES; *IMPACT STATEMENTS; *POWER GENERATION; *STANDARDS; WILDLIFE; *WATER POLLUTION CONTROL; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 203P. PB 291330

ABSTRACT: THIS MANUAL CONTAINS A GENERALIZED SUMMARY OF THE MAJOR IMPACTS TO BIOTA THAT ARE UNIQUE TO COAL-FIRED POWER PLANTS. POWER PLANT FEATURES AND THEIR IMPACTS DISCUSSED INCLUDE: (1) STACK EMISSIONS; (2) COAL SLURRY PIPELINES; (3) COAL CLEANING AND STORAGE; (4) LIMESTONE PREPARATION; (5) SOLID WASTES; AND (6) COAL CONVERSION.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SERVICE, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($9.50)

IRIS ACCESSION NUMBER: EW003180

PUBLICATION DATE: 71

TITLE: BASIC WATER TREATMENT OPERATOR'S PRACTICES.

DESCRIPTOR: *CHEMISTRY; DISEASES; *ENVIRONMENTAL TECHNICIANS; EQUIPMENT; HYDRAULICS; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; *LABORATORY TECHNIQUES; MATHEMATICS; PUBLIC HEALTH; *POST SECONDARY EDUCATION; SAFETY; *WATER RESOURCES; *OPERATIONS(WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 136P. M18, ORDER NO. 30018

ABSTRACT: THIS VOLUME IS THE FIRST OF A SERIES OF OPERATOR TRAINING MANUALS FOR WATER UTILITY PERSONNEL. IT WAS SPECIFICALLY WRITTEN FOR GRADE IV OPERATORS, BUT SHOULD BE A USEFUL REFERENCE FOR OTHERS INTERESTED IN THE FIELD OF WATER TREATMENT. CHAPTER TOPICS INCLUDE WATER SOURCES AND CHARACTERISTICS, PUBLIC HEALTH ASPECTS, APPLIED MATHEMATICS, CHEMICAL USE AND EQUIPMENT, TREATMENT CONTROL TECHNIQUES, SAFETY, AND ADMINISTRATIVE PRACTICES. EACH CHAPTER FOLLOWS A SIMILAR FORMAT PRESENTING AN OBJECTIVE, LIST OF NEW TERMS, DEFINITIONS, BASIC INFORMATION AND A SUMMARY. REFERENCES ARE PROVIDED WHERE APPROPRIATE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, PUBLICATIONS ORDER DEPT., 6666 W. QUINCY AVE., DENVER, CO 80235 PRICE: $8.50; AWWA MEMBERS: $4.25

INSTITUTION NAME: AMERICAN WATER WORKS ASSOCIATION.

IRIS ACCESSION NUMBER: EW003183

PUBLICATION DATE: FEB 74

TITLE: FILTRATION: A DISCUSSION FOR WATER PLANT OPERATORS.

PERSONAL AUTHOR: CURRY, MICHAEL D

DESCRIPTOR: ENGINEERING; ENVIRONMENTAL INFLUENCES; *EQUIPMENT UTILIZATION; *INSTRUCTIONAL MATERIALS; JOB SKILLS; POLLUTION; *POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; *WATER QUALITY; *FILTRATION; *OPERATIONS(WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 41P.

ABSTRACT: THIS PAPER PRESENTS INFORMATION PERTAINING TO FILTRATION AS A UNIT PROCESS IN WATER TREATMENT. TOPIC AREAS DISCUSSED INCLUDE TYPES OF FILTERS, GOAL OF PRETREATMENT AND FILTRATION, UNDERDRAINS, FILTRATION RATE, BACKWASHING, PROBLEMS, AND BACKWASH WASTEWATER TREATMENT.

AVAILABILITY: HENRY, MEISENHAUER 8 GENDE, INC., CONSULTING ENGINEERS, CARLYLE, IL 62231

IRIS ACCESSION NUMBER: EW003184

PUBLICATION DATE: DEC 74

TITLE: WATER PLANT OPERATOR INTERMEDIATE COURSE.

PERSONAL AUTHOR: FRYE, HORACE

DESCRIPTOR: BEHAVIORAL OBJECTIVES; CHEMISTRY; *CURRICULUM GUIDES; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *LABORATORY TECHNIQUES; *POST SECONDARY EDUCATION; WATER POLLUTION CONTROL; *WATER QUALITY; *ILLINOIS; *OPERATIONS(WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 43P.

ABSTRACT: THIS DOCUMENT PROVIDES A GENERAL OUTLINE AND THE NOTES FOR A 12 SESSION COURSE DESIGNED FOR ENVIRONMENTAL TECHNICIANS INVOLVED WITH WATER TREATMENT PLANT OPERATIONS. EACH SESSION IS DESIGNED TO LAST TWO AND ONE-HALF HOURS COVERING SUCH TOPICS AS PRETREATMENT, FILTER OPERATION AND CONTROL, WATER SOFTENING, LABORATORY TECHNIQUES, AND TASTE AND ODOR CONTROL.

AVAILABILITY: ILLINOIS EPA, DIVISION OF PUBLIC WATER SUPPLIES, SPRINGFIELD, IL 62706

IRIS ACCESSION NUMBER: EW003185
PUBLICATION DATE: OCT 73

TITLE: WATER PLANT MATHEMATICS (INTERMEDIATE LEVEL).

PERSONAL AUTHOR: CURRY, MICHAEL D

DESCRIPTOR: *ENVIRONMENTAL TECHNICIANS; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MATHEMATICS; *POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; WATER QUALITY; *OPERATIONS(WATER)

DESCRIPTIVE NOTE: 107P.

ABSTRACT: THIS MANUAL PRESENTS INFORMATION ABOUT MATHEMATICS AS IT RELATES TO WATER TREATMENT PLANT OPERATORS IN PREPARING BUDGETS, ORDERING CHEMICALS, CONDUCTING LABORATORY ANALYSIS, MAKING SOLUTIONS, AND EVALUATING UNIT OPERATIONS. BASIC COMPUTATIONS ARE PRESENTED IN EACH OF THE CHAPTERS WITH PRACTICE PROBLEMS AND THEIR SOLUTIONS PROVIDED. CONVERSION TABLES AND OTHER INFORMATION ARE INCLUDED IN THE APPEDIX.

AVAILABILITY: HENRY, MEISENHEIMER 8 GENDE, INC., CARLYLE, IL 62231

IRIS ACCESSION NUMBER: EW003204

PUBLICATION DATE: 72

TITLE: WATER PUBLICATIONS OF STATE AGENCIES.

PERSONAL AUTHOR: GERALD J. GIEFER; DAVID K. TODD

DESCRIPTOR: CONSERVATION; GEOLOGY; *GOVERNMENT PUBLICATIONS; *NATURAL RESOURCES; POLLUTION; *RESEARCH; WATER POLLUTION CONTROL; *WATER RESOURCES; *BIBLIOGRAPHIES; WASTEWATER TREATMENT; WATER TREATMENT

DESCRIPTIVE NOTE: 319P.

ABSTRACT: THIS DOCUMENT PROVIDES A COMPILATION OF WATER RESOURCES PUBLICATIONS ISSUED BY OVER 300 STATE AGENCIES IN THE UNITED STATES. INFORMATION IS LISTED BY STATE WITH PUBLICATIONS GROUP UNDER THE ISSUING AGENCY OF EACH STATE. BRIEF INTRODUCTORY STATEMENTS WITH INFORMATION AS TO AVAILABILITY AND PRICE HAVE BEEEN INCLUDED WHERE THEY WERE SUPPLIED.

AVAILABILITY: WATER INFORMATION CENTER, 7 HIGH ST., HUNTINGTON, NY 11743

IRIS ACCESSION NUMBER: EW003205

PUBLICATION DATE: 76

TITLE: WATER PUBLICATIONS OF STATE AGENCIES FIRST SUPPLEMENT, 1970-1974.

PERSONAL AUTHOR: GIEFER, GERALD J.; TODD, DAVID K

DESCRIPTOR: CONSERVATION; *GOVERNMENT PUBLICATIONS; GEOLOGY; NATURAL RESOURCES; POLLUTION; *WATER RESOURCES; WATER POLLUTION CONTROL; *BIBLIOGRAPHIES

ABSTRACT: THIS DOCUMENT PROVIDES A COMPILATION OF WATER RESOURCE PUBLICATIONS ISSUED BY STATE AGENCIES IN THE UNITED STATES. INFORMATION IS LISTED BY STATE WITH PUBLICATIONS GROUPED UNDER THE ISSUING AGENCY OF EACH STATE. BRIEF INTRODUCTORY STATEMENTS WITH INFORMATION AS TO AVAILABILITY AND PRICE HAVE BEEN INCLUDED WHERE THEY WHERE THEY WERE SUPPLIED.

AVAILABILITY: WATER INFORMATION CENTER, 7 HIGH ST., HUNTINGTON, NY 11743

IRIS ACCESSION NUMBER: EW003207

PUBLICATION DATE: 72

TITLE: MODERN WATER RATES.

PERSONAL AUTHOR: KENDALL, THEODORE REED

DESCRIPTOR: COMMUNITY SUPPORT; *COST INDEXES; ENGINEERING; *FINANCES; *MUNICIPALITIES; NATURAL RESOURCES; OPERATING EXPENSES; *UTILITIES; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 74P.

ABSTRACT: THIS VOLUME PRESENTS A REPRESENTATIVE SAMPLING OF WATER RATE PRACTICES BY LARGE AND SMALL, PRIVATE AND MUNICIPALLY OWNED, WATER UTILITIES. DISCUSSED ARE THE FACTORS INVOLVED IN MAKING A RATE STRUCTURE FAIR AND PRODUCTIVE, AND THE PROS AND CONS OF VARIOUS PRACTICES.

AVAILABILITY: MORGAN-GRAMPIAN PUBLISHING, CO., BERKSHIRE COMMON, PITTSFIELD, MA 01201

IRIS ACCESSION NUMBER: EW003278

PUBLICATION DATE: 77

TITLE: WATER: THE UNIVERSAL SOLVENT.

PERSONAL AUTHOR: KEMMER FRANK N

DESCRIPTOR: BIOLOGY; *CHEMISTRY; *ENVIRONMENTAL INFLUENCES; *INSTRUCTIONAL MATERIALS; *LABORATORY PROCEDURES; MEASUREMENT TECHNIQUES; *NATURAL RESOURCES; *POST SECONDARY EDUCATION; *WATER POLLUTION CONTROL; *WATER RESOURCES

DESCRIPTIVE NOTE: 155P.

ABSTRACT: THIS VOLUME PRESENTS A GENERAL INTRODUCTION TO THE BASIC CONCEPTS SURROUNDING WATER. TOPICS DISCUSSED INCLUDE THE WATER MOLECULE; WATER SOURCES AND USES; BASIC CHEMISTRY; WATER CHEMISTRY; AQUATIC BIOLOGY; OCCURRENCE AND TREATMENT OF WATER CONTAMINANTS; AND WATER GAUGING, SAMPLING AND ANALYSIS. A GLOSSARY OF RELATED TERMS IS INCLUDED IN THE APPENDIX.

AVAILABILITY: NALCO CHEMICAL COMPANY, 2901 BUTTERFIELD RD., OAK BROOK, IL 60521 ($5.00)

IRIS ACCESSION NUMBER: EW003279

PUBLICATION DATE: 76

TITLE: COURSE IN APPLIED HYDRAULICS FOR WATER AND WASTEWATER PERSONNEL.

DESCRIPTOR: ENGINEERING TECHNICIANS; *HYDRAULICS; *INSERVICE EDUCATION; *MANUALS; PROBLEM SOLVING; WASTES; *WATER POLLUTION CONTROL; WATER RESOURCES

DESCRIPTIVE NOTE: 170P.

ABSTRACT: THIS IS AN INSERVICE TRAINING MANUAL FOR WATER AND WASTEWATER PERSONNEL. PRESENTED IS AN INTRODUCTION TO APPLIED HYDRAULICS IN TWELVE LESSONS, EACH DESIGNED TO BE ASSIMILATED IN ONE WEEK. ABILITY IN BASIC MATHEMATICAL CALCULATIONS AND USE OF A POLYPHASE SLIDE RULE IS NECESSARY FOR THIS COURSE. THE MATERIAL IS CENTERED AROUND APPLICATIONS OF HYDRAULICS TO WATER AND WASTEWATER SITUATIONS. EACH OF THE TWELVE LESSONS IS CONCLUDED WITH A SET OF PROBLEMS TO HELP THE STUDENT BECOME PROFICIENT IN THE SKILLS DISCUSSED IN THAT LESSON. THE LESSON TITLES ARE: (1) HYDRAULIC CONCEPTS; (2) HYDRAULIC PRESSURE; (3) FUNDAMENTALS OF FLOW I; (4) FUNDAMENTALS OF FLOW II; (5) PIPE FLOW WITH FRICTION LOSS; (6) COMPOUND PIPES; (7) MINOR LOSSES IN FLUID FLOW; (8) FLOW IN OPEN CHANNELS, (9) FLOW MEASUREMENTS I; (10) FLOW MEASUREMENTS II; (11) PUMP TYPES AND CHARACTERISTICTS; AND (12) SIMPLE PUMPING PROBLEMS.

AVAILABILITY: MICHIGAN SECTION AMERICAN WATER WORKS ASSOC.

INSTITUTION NAME: SANITARY WATER RESOURCES ENGINEERING, UNIVERSITY OF MICHIGAN.

IRIS ACCESSION NUMBER: EW003280

PUBLICATION DATE: 74

TITLE: COURSE IN APPLIED MATHEMATICS FOR WATER AND WASTEWATER PERSONNEL.

DESCRIPTOR: ENGINEERING TECHNICIANS; *INSERVICE EDUCATION; INSTRUCTIONAL MATERIALS; *MANUALS; *MATHEMATICAL APPLICATIONS; MATHEMATICS; *TEACHING GUIDES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES

DESCRIPTIVE NOTE: 64P.

ABSTRACT: THIS IS AN INSERVICE EDUCATION COURSE MANUAL IN MATHEMATICS FOR WATER AND WASTEWATER PERSONNEL. THE MANUAL IS MEANT TO BE USED AS A DETAILED OUTLINE TO PROVIDE GENERAL UNIFORMITY AMONG THE SEVERAL SCHOOLS IN THE MICHIGAN AREA THAT CONDUCT COURSES FOR WATER AND WASTEWATER PERSONNEL. IT

IS DESIGNED TO REFRESH THE STUDENTS KNOWLEDGE OF BASIC MATHEMATICAL COMPUTATIONS RELATED TO THEIR EMPLOYMENT. LESSON TITLES INCLUDE: (1) INTRODUCTION TO THE SLIDE RULE: READING SCALES, DIVISION; (2) INTRODUCTION TO THE SLIDE RULE: MULTIPLICATION, DECIMAL POINT; (3) CALCULATION OF ARMS; (4) CALUCATION OF VOLUMES; (5) CALCULATION OF RATES; (6) CALCULATION OF WEIGHT RELATIONSHIPS; (7) CALCULATION OF EFFICIENCIES; AND (8) MATHEMATICS OF STANDARD SOLUTIONS: PROPORTIONS, VOLUME-NORMALITY, STANDARDIZING, TITRATING. SAMPLE, DRILL, AND HOME ASSIGNMENT PROBLEMS ARE INCLUDED.

AVAILABILITY: MICHIGAN SECTION, AMERICAN WATER WORKS ASSOS.

INSTITUTION NAME: MICHIGAN DEPT. OF EDUCATION, DIV. OF VOCATIONAL EDUCATION.

IRIS ACCESSION NUMBER: EW003281

PUBLICATION DATE: 72

TITLE: COURSE IN BASIC CHEMISTRY FOR WATER AND WASTEWATER PERSONNEL.

PERSONAL AUTHOR: FEBEN, DOUGLAS

DESCRIPTOR: CHEMICAL REACTIONS; *CHEMISTRY; *INSTRUCTIONAL MATERIALS; PUBLIC HEALTH; *TEACHING GUIDES; WASTE DISPOSAL; *WATER POLLUTION CONTROL; WATER RESOURCES

DESCRIPTIVE NOTE: 121P.

ABSTRACT: THIS INSERVICE TRAINING MANUAL IS DESIGNED FOR USE AS A DETAILED GUIDE FOR INSTRUCTORS IN THE MICHIGAN AREA WHO TEACH A BASIC CHEMISTY COURSE FOR WATER AND WASTEWATER PERSONNEL. THIS COURSE IS DESIGNED TO REFRESH AND ADD TO THE STUDENT'S KNOWLEDGE OF BASIC CHEMISTRY AS IT RELATES TO THEIR EMPLOYMENT. THE 15 LESSONS INCLUDE THE FOLLOWING CHEMISTRY TOPICS: (1) ENERGY, HEAT, TEMPERATURE; (2) MATTER; (3) EQUIVALENCE AND VALENCE; (4) ACIDS AND BASES; (5) SALTS AND PH; (6) STANDARDIZATION ERRORS, ALKALINITY, ACIDITY; (7) WATER SOFTENING, AND (8) CHLORINATION. THE EMPHASIS IN THESE LESSONS IS ON PRACTICAL APPLICATIONS OF CHEMISTRY AND THE DISCUSSION IS LESS THEORETICAL THAN MANY OTHER CHEMISTRY TEXTS.

AVAILABILITY: MICHIGAN DEPT OF PUBLIC HEALTH, BUREAU OF ENV. & OCCUPATIONAL HEALTH, 3500 N. LOGAN ST., P.O. BOX 30035 LANSING, MICHIGAN, 48909

IRIS ACCESSION NUMBER: EW003284

PUBLICATION DATE: 78

TITLE: WASTEWATER TREATMENT PLANT DESIGN 1977 MOP/8.

DESCRIPTOR: CHEMISTRY; *ENGINEERING; *ENVIRONMENTAL INFLUENCES; *FACILITIES; *FACILITY DESIGN; *INSTRUCTIONAL MATERIALS; POLLUTION; PUBLIC HEALTH; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 560P.

ABSTRACT: THIS BOOK PRESENTS A STATE OF-THE-ART IN THE WASTEWATER TREATMENT FIELD AS RECOGNIZED BY THE JOINT COMMITEE SPONSORED BY THE WATER POLLUTION CONTROL FEDERATION AND THE AMERICAN SOCIETY OF CIVIL ENGINEERS. EACH CHAPTER PRESENTS APPLICABLE PROCESS THEORY AND THEN, USING THIS THEORY, ADDRESSES DESIGN CONSIDERATIONS AND APPLICATION. PRINCIPLES AND PRACTICES ARE PRESENTED IN A MANNER THAT PROVIDES A LOGICAL SEQUENCE OF WASTEWATER TREATMENT PLANT DESIGN. SUBJECTS ARE ARRANGED TO FACILITATE USE ON THE BASIS OF A SYSTEMS APPROACH AND INCLUDE CONSTRUCTION MATERIALS, PUMPS, AERATION, GRIT REMOVAL, RECARBONATION, BIOLOGICAL FILTERS, DISINFECTION, LAND APPLICATION, AND SLUDGE PREPARATION AND DIGESTION.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, PUBLICATIONS DEPT., 3900 WISCONSIN AVE., NW, WASHINGTON, DC 20016

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION; AMERICAN SOCIETY OF CIVIL ENGINEERING.

IRIS ACCESSION NUMBER: EW003475

PUBLICATION DATE: 78

TITLE: CHEMISTRY OF THE ENVIRONMENT.

PERSONAL AUTHOR: BAILEY, R.A; AND OTHERS

DESCRIPTOR: ATMOSPHERIC CHEMISTRY; *CHEMISTRY; CHLORINATED HYDROCARBONS; *ENVIRONMENT; HEAVY METALS; *INSTRUCTIONAL MATERIALS; NUCLEAR CHEMISTRY; *ORGANIC CHEMICALS; POLLUTANTS; *POLLUTION; PETROLEUM; *PESTICIDES; POST SECONDARY EDUCATION

DESCRIPTIVE NOTE: 575P.

ABSTRACT: THIS BOOK IS INTENDED TO TAKE THE READER FROM A BASIC LEVEL OF CHEMICAL KNOWLEDGE TO THE POINT WHERE HE CAN DEAL WITH ADVANCED MONOGRAPHS AND THE RESEARCH LITERATURE IN ENVIRONMENTAL CHEMISTRY. SOME OF THE CHAPTERS REQUIRE A BASIC KNOWLEDGE OF ORGANIC CHEMISTRY. PETROLEUM, CHLORINATED HYDROCARBONS, PESTICIDES, HEAVY METALS, NUCLEAR CHEMISTRY, AND ATMOSPHERIC CHEMISTRY ARE DEALT WITH EXTENSIVELY. OTHER TOPICS, SUCH AS ATMOSPHERIC CIRCULATION, WHICH ARE IMPORTANT TO UNDERSTANDING ENVIRONMENTAL PROCESSES ARE ALSO COVERED. BOTH NATURAL PROCESSES AND TECHNOLOGICAL PROCESSES THAT IMPINGE ON THE ENVIRONMENT ARE INCLUDED. A BIBLIOGRAPHY OF ITEMS RANGING FROM THE VERY GENERAL TO THE VERY SPECIFIC IS GIVEN AT THE END OF EACH CHAPTER.

AVAILABILITY: ACADEMIC PRESS, INC., 111 FIFTH AVE., NEW YORK, NEW YORK 10003 ($26.00)

IRIS ACCESSION NUMBER: EW003557
PUBLICATION DATE: 79

TITLE: MANUAL OF INSTRUCTION FOR PACKAGE PLANT OPERATORS.

DESCRIPTOR: CHLORINATION; COST EFFECTIVENESS; ENGINEERING; FACILITIES; *INSTRUCTIONAL MATERIALS; *JOB SKILLS; MAINTENANCE; *WEST VIRGINIA; *PACKAGE TREATMENT PLANTS; *OPERATIONS (WASTEWATER); PRETREATMENT; SANITATION; SLUDGE; UTILITIES; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 21P.

ABSTRACT: THIS MANUAL PROVIDES BASIC INFORMATION NECESSARY TO PROPERLY OPERATE AND MAINTAIN A WASTEWATER TREATMENT PACKAGE PLANT. THE UNITS PRESENTED INCLUDE: (1) INSTALLATION; (2) PRETREATMENT; (3) SLUDGE HOLDING TANKS; (4) CHLORINATION; (5) TROUBLE SHOOTING; (6) SAFETY; AND (7) A SERVICE CHECK LIST.

AVAILABILITY: EPA INFORMATION DISSEMINATION PROJECT, 1200 CHAMBERS RD, 2ND FLOOR, COLUMBUS, OHIO 43212 ($1.63)

INSTITUTION NAME: WEST VIRGINIA DEPARTMENT OF HEALTH, DIVISION OF SANITARY ENGINEERING.

IRIS ACCESSION NUMBER: EW003909

PUBLICATION DATE: 77

TITLE: FLOW-INDUCED VIBRATION.

PERSONAL AUTHOR: BLEVINS, ROBERT D

DESCRIPTOR: *ENGINEERING; *FLUID FLOW; *HYDRAULICS; PHYSICS; *PIPES; RESEARCH; *STRUCTURAL ANALYSIS; SCIENCES; TECHNOLOGY

DESCRIPTIVE NOTE: 363P.

ABSTRACT: THIS BOOK PROVIDES AN INTRODUCTION TO THE COMPLEX AND RELATIVELY NEW FIELD OF FLUID FLOW. BACKGROUND INFORMATION INCLUDES RELEVANT NOMENCLATURE, EXPLANATORY MATERIAL AND A REVIEW OF VIBRATIONS OF CONTINUOUS STRUCTURES. TOPIC AREAS ADDRESSED INCLUDE: (1) DYNAMIC RESPONSE OF SHIPS TO OCEAN WAVES; (2) DYNAMIC RESPONSE OF RUPTURED PIPES TO INTERNAL FLOW; (3) WAVE-INDUCED VIBRATION OF OFFSHORE PLATFORMS; AND (4) WIND-INDUCED VIBRATIONS OF TALL BUILDINGS AND POWER-LINES. ACCOMPANYING THIS INFORMATION ARE EXPERIMENTAL DATA WHICH HAVE PROVEN USEFUL IN PREDICTING VIBRATIONS.

AVAILABILITY: VAN NOSTRAND REINHOLD CO., 7625 EMPIRE DR., FLORENCE, KY 41042 ($17.95)

IRIS ACCESSION NUMBER: EW003932
PUBLICATION DATE: 79

TITLE: CORROSION RESISTANT DESIGN OF SANITARY SEWER PIPE.

PERSONAL AUTHOR: KIENOW, KENNETH; POMEROY, RICHARD D

DESCRIPTOR: *CHEMICAL REACTIONS; *PIPES; *WASTE DISPOSAL; ENGINEERING; TECHNOLOGY; HYDRAULICS; SEWERS; *SEWER LININGS; *SULFURIC ACID; CORROSION

ABSTRACT: DISCUSSED IS THE USE OF VARIOUS SEWER PIPE LINERS TO COMBAT THE ACTION OF SULFURIC ACID WITHIN THE LINES. COMPARISONS OF CORROSION RESISTANCE ARE GIVEN FOR ADHESION LINERS, MECHANICALLY LOCKED LINERS, FERROUS PIPES, AND MORTAR-LINED STEEL PIPES.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL 1979 PR-8-R13., UNIVERSITY MICROFILMS INTERNATIONAL, 300 NORTH ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003933

PUBLICATION DATE: 79

TITLE: MODIFIED FORMULA GIVES BETTER SEWER DESIGN.

PERSONAL AUTHOR: MOHAN, D.M.; KHANNA, P

DESCRIPTOR: *HYDRAULICS; *ENGINEERING; *PIPES; *WASTEWATER TREATMENT; *CALCULATIONS; *SEWERS; *FLOW MEASUREMENT

ABSTRACT: DISCUSSED IS THE USE OF THE MODIFIED HAZEN WILLIAMS FORMULA FOR DETERMINING MORE ACCURATE SEWER FLOWS. EQUATIONS AND STEP-BY-STEP CALCULATIONS ARE GIVEN FOR VARYING DIAMETERS, SLOPE, AND DEPTH OF FLOW.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL, PR-20-R-24 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 NORTH ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003934

PUBLICATION DATE: 79

TITLE: PRESSURE SEWER SYSTEM DESIGN.

PERSONAL AUTHOR: FLANIGAN, L.J.; CADMIK, C.A

DESCRIPTOR: *ENGINEERING; *HYDRAULICS; *PIPES; *WASTEWATER TREATMENT; *DESIGN; *SEWERS; *PRESSURIZED SEWERS

ABSTRACT: DISCUSSED ARE THE DESIGN PARAMETERS WHICH SHOULD BE CONSIDERED IN A PRESSURIZED SEWAGE SYSTEM. GUIDELINES FOR SELECTION OF PUMPS AND PIPING IN RELATION TO SCOURING VELOCITY, FLOW RATE, AND FRICTIONAL RESISTANCE ARE PRESENTED.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-

25-34 PR-87 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003935

PUBLICATION DATE: 79

TITLE: GUIDE TO PURCHASING AND MAINTAINING INDUCTION MOTORS.

PERSONAL AUTHOR: HANSON, FRED HANS

DESCRIPTOR: *EQUIPMENT; *MAINTENANCE; *WATER TREATMENT; *UTILITIES; *EQUIPMENT STANDARDS; *MOTORS; *COST EFFECTIVENESS

ABSTRACT: PRESENTED ARE THE RESULTS OF A SURVEY OF 39 CALIFORNIA WATER UTILITIES REGARDING MOTOR ENDURENCE. GUIDELINES ARE PROVIDED FOR THE PURCHASE, OPERATION, AND MAINTENANCE OF MOTOR OPERATION.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-52-R-58 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003936

PUBLICATION DATE: 79

TITLE: RECOGNIZING AND PREVENTING IMPENDING MOTOR FAILURE.

PERSONAL AUTHOR: HOLLOWOOD, HUGH B

DESCRIPTOR: *EQUIPMENT; *MAINTENANCE; *UTILITIES; *MOTORS

ABSTRACT: DISCUSSED ARE THE EFFECTS OF ABRASION, CONTAMINATION, AND THERMAL DEGRADATION ON AC AND DC MOTORS. SUGGESTIONS FOR OPERATION AND PREVENTIVE MAINTENANCE ARE PROVIDED.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-59-R-61 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003937

PUBLICATION DATE: 79

TITLE: BELT FILTER PRESSES: VARIETIES TO CHOOSE FROM.

PERSONAL AUTHOR: HARRISON, J.R.

DESCRIPTOR: *WASTEWATER TREATMENT; *WASTE DISPOSAL; *EQUIPMENT STANDARDS; *OPERATIONS(WASTEWATER); *BELT FILTER PRESSES; MAINTENANCE

ABSTRACT: COMPARED ARE A VARIETY OF SLUDGE DEWATERING DEVICES TO THE CONTINUOUS BELT FILTER PROCESS. NEW UNITS DISCUSSED INCLUDE: (1) THE FLOC PRESS AND DUAL-CELL GRAVITY; AND (2) MULTIPLE-ROLL PRESSES.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-62-R-68 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW003938

PUBLICATION DATE: 79

TITLE: APPLYING THE ROTATING BIOLOGICAL CONTACTOR.

PERSONAL AUTHOR: ANTONIE, RONALD L

DESCRIPTOR: *WASTEWATER TREATMENT; *OPERATIONS(WASTEWATER); *EQUIPMENT STANDARDS; *COST EFFECTIVENESS; *FACILITIES; EQUIPMENT; *ROTATING BIOLOGICAL CONTACTORS

ABSTRACT: DISCUSSED ARE THE OPERATION AND EFFECTIVENESS OF USING THE ROTATING BIOLOGICAL CONTACTOR PROCESS IN THE TREATMENT OF DOMESTIC WASTEWATER.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-69-R-75 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW003939

PUBLICATION DATE: 79

TITLE: WATER/WASTEWATER ANALYSIS BY ATOMIC ABSORPTION SPECTROSCOPY.

PERSONAL AUTHOR: MANNING, DAVID C

DESCRIPTOR: *WATER POLLUTION CONTROL; *WATER QUALITY; OPERATIONS(WATER); OPERATIONS(WASTEWATER); *SPECTROSCOPY; *METALS; *WATER ANALYSIS; *ATOMIC ABSORPTION SPECTROSCOPY

ABSTRACT: THIS ARTICLE DISCUSSES THE USE OF ATOMIC ABSORPTION SPECTROSCOPY TO ANALYZE FOR TRACEMETAL COMPONENTS OF WATER TO THE STANDARDS SET BY GOVERNMENTAL AUTHORITIES.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-76-R-80 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW003940

PUBLICATION DATE: 79

TITLE: PLANT VARIABLES DETERMINE PHOSPHORUS REMOVAL METHODS.

PERSONAL AUTHOR: KING, PAUL H.; AND OTHERS

DESCRIPTOR: *WASTEWATER TREATMENT; *CHEMICAL REACTIONS;

OPERATIONS(WASTEWATER); *WASTE DISPOSAL; RESEARCH; *PHOSPHORUS

ABSTRACT: REPORTED ARE STUDIES OF CHEMICAL PRECIPITATION METHODS UTILIZING LIME AND ALUM METALLIC SALTS TO REMOVE HIGH LEVELS OF PHOSPHORUS FROM WASTEWATER. THE ADVANTAGES AND DISADVANTAGES OF EACH ARE DISCUSSED.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-82-R-86 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW003941

PUBLICATION DATE: 79

TITLE: MEMBRANE ULTRAFILTRATION: EMERGING ALTERNATIVE IN LIQUID WASTE TREATMENT.

PERSONAL AUTHOR: SCHELL, W.J.

DESCRIPTOR: *WATER TREATMENT; *WATER QUALITY; *OPERATIONS(WATER); TECHNOLOGY; *ULTRAFILTRATION; *MEMBRANE FILTRATION

ABSTRACT: DISCUSSED ARE THE AVAILABILITY AND APPLICABILITY OF MEMBRANE ULTRA FILTRATION FOR OPERATING SIMPLICITY, RELIABILITY, AND ECONOMICS IN WATER TREATMENT OPERATIONS.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-88-R-90 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW003942

PUBLICATION DATE: 79

TITLE: NOMOGRAPH PRODUCES SETTLING VELOCITY OF FLOCS.

PERSONAL AUTHOR: ZANKER, ADAM

DESCRIPTOR: *CHEMICAL REACTIONS; *CALCULATION; *WATER TREATMENT; *FLOCCULATION; *SEDIMENTATION

ABSTRACT: THIS ARTICLE PRESENTS THE CALCULATIONS NECESSARY FOR COMPUTING THE SEDIMENTATION VELOCITIES OF FLOCS IN WATER.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-92-R-93 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003943

PUBLICATION DATE: 79

TITLE: MINIMUM SURFACE, MAXIMUM DEPTH IMPROVE FILTER PERFORMANCE.

PERSONAL AUTHOR: COOK, ECHOL E

DESCRIPTOR: ENGINEERING; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *EQUIPMENT STANDARDS; *TRICKLING FILTERS; *DESIGN

ABSTRACT: THIS ARTICLE REPORTS ON A STUDY TO INVESTIGATE DIFFERENT SPATIAL CONFIGURATIONS OF TRICKLING FILTER MEDIA TO OBSERVE THE RELATIONSHIPS OF SURFACE AREA, DEPTH, AND ORGANICS-REMOVAL EFFICIENCIES.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-99-R-100 1979., UNIVERSITY MICROFILMS INTERNATION, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003944

PUBLICATION DATE: 79

TITLE: THE SEARCH FOR EFFECTIVE WASTEWATER DISINFECTANTS.

PERSONAL AUTHOR: KAWATA, KAZUYOSHI; AND OTHERS

DESCRIPTOR: *WATER TREATMENT; *CHEMICAL REACTIONS; PUBLIC HEALTH; *WATER QUALITY; WATER POLLUTION CONTROL; SANITATION; DISEASE CONTROL; *DISINFECTANTS; VIRUSES; BACTERIA

ABSTRACT: TWO SETS OF AUTHORS DISCUSS THE SELECTION AND USE OF CHEMICAL DISINFECTANTS IN THE CONTROL OF VIRUSES AND/OR BACTERIA IN WATER TREATMENT OPERATIONS. DISCUSSION CENTERS AROUND THE EFFECTIVENESS OF VARIOUS CHLORINE AND BIOMENE COMPOUNDS.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-107-118 1979., UNIVERSITY MICROFILMS INTERNATIONL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003945

PUBLICATION DATE: 79

TITLE: CHLORINE DIOXIDE IS AN ATTRACTIVE TREATMENT ALTERNATIVE.

PERSONAL AUTHOR: SUSSMAN, SIDNEY; WARD, WILLIAM J

DESCRIPTOR: *WATER TREATMENT; *CHEMICAL REACTIONS; PUBLIC HEALTH; *WATER QUALITY; WATER POLLUTION CONTROL; SANITATION; DISEASE CONTROL; *CHLORINE DIOXIDE; *TASTE; *ODOR; *BACTERIA

ABSTRACT: DISCUSSED ARE THE PROPERTIES AND USE OF CHLORINE-DIOXIDE IN THE TREATMENT OF DRINKING WATER SUPPLIES FOR TASTE, ODOR, AND BACTERIA CONTROL. CHLORINE DIOXIDE GENERATION, TESTING, AND MONITORING ARE ALSO DISCUSSED.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-120-R-121 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003946

PUBLICATION DATE: 79

TITLE: OZONE PURIFIES WASTEWATER FOR THE REUSE CYCLE.

PERSONAL AUTHOR: ROSEN, HARVEY M

DESCRIPTOR: *WATER QUALITY; *RECYCLING; WATER POLLUTION CONTROL; *CHEMICAL REACTION; DISEASE CONTROL; *WASTEWATER TREATMENT; *WATER TREATMENT; *OZONE; *BACTERIA

ABSTRACT: THE PROPERTIES AND USES OF OZONE IN THE CONTROL OF BACTERIA IN WATER AND WASTEWATER TREATMENT OPERATIONS ARE THE FOCUS OF THIS ARTICLE. NUMEROUS TABLES AND CHARTS ARE PROVIDED TO DOCUMENT THE TEXT.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-122-R-127 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003947

PUBLICATION DATE: 79

TITLE: WATER/WASTEWATER TREATMENT PLANT OPERATOR QUALIFICATIONS.

DESCRIPTOR: *CERTIFICATION; *ENVIRONMENTAL TECHNICIANS; *EMPLOYMENT QUALIFICATIONS; *OCCUPATIONAL INFORMATION; *WATER TREATMENT; *WASTEWATER TREATMENT.

ABSTRACT: THIS ARTICLE SUMMARIZES IN TABULAR FORM THE U.S. AND CANADIAN PROGRAMS FOR CLASSIFICATION OF WATER AND WASTEWATER TREATMENT PLANT PERSONNEL. INCLUDED ARE MAIN CHARACTERISTICS OF THE PROGRAMS, EDUCATIONAL AND EXPERIENCE REQUIREMENTS, AND INDICATIONS OF REQUIREMENT SUBSTITUTIONS.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-133,R-192 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003948

PUBLICATION DATE: 79

TITLE: REVERSE OSMOSIS REDUCES VIRAL COUNT IN THE INFLUENT STREAM.

PERSONAL AUTHOR: COOPER, ROBERT C; STRAUBE, DAVID

DESCRIPTOR: *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; PUBLIC HEALTH; DISEASE PREVENTION; BACTERIOLOGY; *OPERATIONS(WASTEWATER); *VIRUSES; *REVERSE OSMOSIS

ABSTRACT: THIS ARTICLE REPORTS ON A STUDY OF THE EFFECTIVENESS OF A REVERSE OSMOSIS UNIT OPERATED BY THE SAN DIEGO WATER UTILITIES DEPARTMENT TO REMOVE VIRUSES FROM THE RAW FEED WATER. THE TEXT IS SUPPLEMENTED WITH TABLES AND DIAGRAMS.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-162-R167 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003949

PUBLICATION DATE: 79

TITLE: UP TO 90% TREATMENT EFFICIENCY WITH ION EXCHANGE RESIN.

PERSONAL AUTHOR: SERPER, ALLEN

DESCRIPTOR: *WATER TREATMENT; *WATER QUALITY; WATER POLLUTION CONTROL; OPERATIONS(WATER); CHEMICAL REACTIONS; *METALS; COST EFFECTIVENESS; TECHNOLOGY; *ION EXCHANGE; *IONS

ABSTRACT: OUTLINED ARE TYPES OF ION EXCHANGE TECHNOLOGY PRESENTLY IN USE TO REMOVE UNWANTED METAL OR NONMETAL IONS IN WATER QUALITY CONTROL PROCESSES. SCHEMATICS OF SYSTEMS AND EXAMPLES OF PLANT EXPERIENCES ARE PROVIDED.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-170-R173 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003950

PUBLICATION DATE: 79

TITLE: PUMP MAINTENANCE: STANDARD SCHEDULES NOT ENOUGH.

PERSONAL AUTHOR: FRENCH, WILLIAM W

DESCRIPTOR: *EQUIPMENT; *MAINTENANCE; *PUMPS; *INSPECTION

ABSTRACT: DISCUSSED ARE A VARIETY OF PUMP MAINTENANCE PROBLEMS, THEIR DETECTION, AND THE DEVELOPMENT OF A TECHNICAL INSPECION PREVENTIVE MAINTENANCE PROGRAM.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-178-R181 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003951

PUBLICATION DATE: 79

TITLE: THE AMMETER: UNDERRATED TOOL IN PUMP TROUBLE SHOOTING.

PERSONAL AUTHOR: VOIGT, DONALD, R

DESCRIPTOR: *EQUIPMENT; *PUMPS; *MAINTENANCE; *FLOW MONITORING

ABSTRACT: DISCUSSED ARE THE USE OF AN AMMETER IN

DETERMINING SPECIFIC CAUSES OF PUMP OPERATING PROBLEMS WITHOUT DIRECT DISASSEMBLY.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-184-R186 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW003952

PUBLICATION DATE: 79

TITLE: PROLONGING VERTICAL MOTOR-BEARING LIFE.

PERSONAL AUTHOR: PRITCHETT, DON H

DESCRIPTOR: *EQUIPMENT; *PUMPS; *HYDRAULICS; *MAINTENANCE; *BEARINGS; *MOTORS

ABSTRACT: THIS ARTICLE DISCUSSES HYDRAULIC CONDITIONS THAT AFFECT MOTOR-BEARING LIFE AND OFFERS SUGGESTIONS TO ENGINEERS AND PLANT OPERATORS TO HELP ALLEVIATE POSSIBLE PROBLEMS.

AVAILABILITY: WATER AND SEWAGE WORKS; REFERENCE MANUAL PR-188-R189 1979., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI 4810L.

IRIS ACCESSION NUMBER: EW003970

PUBLICATION DATE: MAY 79

TITLE: START-UP AND OPERATION OF DENVER'S PURE OXYGEN-ACTIVATED SLUDGE PLANT.

PERSONAL AUTHOR: NELSON, JOHN K.

DESCRIPTOR: *WASTEWATER TREATMENT; * WATER POLLUTION CONTROL; UTILITIES; *OPERATIONS (WASTEWATER); EQUIPMENT; *SLUDGE; START-UP; *FACILITIES

ABSTRACT: DISCUSSED ARE THE OPERATIONAL EXPERIENCES OF A FULL-SCALE OXYGEN SYSTEM FOR WASTEWATER TREATMENT. AREAS DISCUSSED INCLUDE: (1) FACILITY START-UP; (2) DESIGN CRITERIA VERSUS ACTURAL PERFORMANCE; (3) AUTOMATED CONTROL; (4) DATA PROCESSING; AND (5) STAFFING.

AVAILABILITY: JOURNAL OF THE WATER POLLUTION CONTROL; V51; N5; P907-917; MAY 79

IRIS ACCESSION NUMBER: EW003971

PUBLICATION DATE: MAY 79

TITLE: OCEAN OUTFALL CONSTRUCTION COSTS.

PERSONAL AUTHOR: WALLIS, I. G

DESCRIPTOR: *ENGINEERING; *COST EFFECTIVENESS; ENVIRONMENTAL INFLUENCES; *TECHNOLOGY; *WATER POLLUTION CONTROL; UTILITIES; *WASTE DISPOSAL; *OCEANOLOGY; CONSTRUCTION; *FACILITIES; *OUTFALL CONSTRUCTION.

ABSTRACT: PROVIDED IS INFORMATION ON 47 OCEAN OUTFALL INSTALLATIONS. THE DIMENSIONS, CHARACTERISTICS, COST, AND DATE OF EACH OUTFALL ARE PRESENTED IN TABULAR FORM TO AID ENGINEERS IN ESTIMATING COSTS FOR FUTURE PROJECTS.

AVAILABILITY: JOURNAL OF THE WATER POLLUTION CONTROL; V51; N5; P951-957 MAY 79

IRIS ACCESSION NUMBER: EW003979

PUBLICATION DATE: JAN 78

TITLE: SEWAGE FARMING; WHY IT MAY BE IN YOUR FUTURE.

DESCRIPTOR: *ENVIRONMENT; HYDRAULICS; *LAND APPLICATION; *LAND USE; *RESEARCH; SOILS; *WASTE DISOPSAL; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 48-49P.

ABSTRACT: THIS ARTICLE DISCUSSES THREE LAND APPLICATION TECHNIQUES FOR WASTEWATER DISPOSAL WHICH SHOW THE GREATEST POTENTIAL FOR WIDE USE. COMPARATIVE CHARACTERISTICS OF THE SLOW RATE, RAPID INFILTRATION, AND OVERLAND FLOW TECHNIQUES ARE PRESENTED IN TABULAR FORM.

AVAILABILITY: THE AMERICAN CITY AND COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD, MA 01201 (COPIES OF ARTICLE ARE FREE)

INSTITUTION NAME: THE AMERICAN CITY 8 COUNTY MAGAZINE.

IRIS ACCESSION NUMBER: EW003980

PUBLICATION DATE: MAR 78

TITLE: IS CHLORINE THE BEST DISINFECTANT?

DESCRIPTOR: *CHLORINE; CHEMICAL REACTIONS; *DISENFECTION; *OPERATIONS (WASTEWATER); PUBLIC HEALTH; *RESEARCH; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 82-83P.

ABSTRACT: THIS ARTICLE DISCUSSES THE ALTERNATIVES TO CONVENTIONAL CHLORINATION TO PROVIDE ADEQUATE DISINFECTION WHILE MAINTAINING WATER CONDITIONS FOR AQUATIC ORGANISMS AND REDUCING OPERATING COSTS. ALTERNATIVES BEING TESTED INCLUDE: (1) OZONATION; (2) DECHLORINATION; (3) ULTRAVIOLET LIGHT; AND (4) IODINE.

AVAILABILITY: THE AMERICAN CITY 8 COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD, MA 01201 (COPIES OF ARTICLE ARE FREE)

INSTITUTION NAME: THE AMERICAN CITY 8 COUNTY MAGAZINE.

IRIS ACCESSION NUMBER: EW003981

PUBLICATION DATE: APR 78

TITLE: SEWERS: THE CLEANER THE BETTER.

DESCRIPTOR: *WASTEWATER COLLECTION; HYDRAULICS; MUNICIPALITIES; *MAINTENANCE; *OPERATIONS (WASTEWATER); PIPES; *SEWERS; *UTILITIES; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 6P.

ABSTRACT: THIS ARTICLE DISCUSSES THE TECHNIQUES AND EQUIPMENT WHICH CAN BE USED BY UTILITIES TO MAINTAIN SEWERS IN GOOD CONDITION. TECHNIQUES PRESENTED INCLUDE: (1)BACTERIA; (2)CHEMICALS; (3)HYDRAULIC PROPELLED MECHANISMS; (4)RODDING EQUIPMENT; AND (5)BUCKET MACHINES.

AVAILABILITY: THE AMERICAN CITY & COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD,MA 01201 (COPIES OF ARTICLE ARE FREE)

INSTITUTION NAME: THE AMERICAN CITY & COUNTY MAGAZINE.

IRIS ACCESSION NUMBER: EW003982

PUBLICATION DATE: MAY 78

TITLE: AUTOMATION IS MAKING WAVES IN WASTEWATER TREATMENT.

DESCRIPTOR: *AUTOMATION; COST EFFECTIVENESS; *COMPUTERS; EQUIPMENT; *MANAGEMENT; *MONITORING; *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 79-81P.

ABSTRACT: THIS ARTICLE DISCUSSES THE FACTORS SURROUNDING THE INSTALLATION AND USE OF COMPUTERS TO REPLACE CONVENTIONAL INSTRUMENTATION IN A WASTEWATER TREATMENT FACILITY. ADVANTAGES NOTED INCLUDE: (1)INCLUSION OF ALARM SYSTEMS; (2)CONTINUAL MONITORING; AND (3)ACTIVATION OF REMOTE DEVICES.

AVAILABILITY: THE AMERICAN CITY & COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD,MA 01201 (COPIES OF ARTICLES ARE FREE)

INSTITUTION NAME: THE AMERICAN CITY & COUNTY MAGAZINE.

IRIS ACCESSION NUMBER: EW003983

PUBLICATION DATE: JUN 78

TITLE: DON'T WASTE ENERGY WHEN TREATING WASTEWATER.

PERSONAL AUTHOR: DELL'ISOLA, A.J.; STAINTON, B.W.

DESCRIPTOR: *COST EFFECTIVENESS; *ENERGY CONSERVATION; ENGINEERING; *ENERGY; *MANAGEMENT; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; WATERPOLLUTION CONTROL

DESCRIPTIVE NOTE: 75-77P.

ABSTRACT: THIS ARTICLE DISCUSSES THE USE OF VALUE ENGINEERED ENERGY (VEE) TO REDUCE ENERGY CONSUMPTION AND COSTS AT WASTEWATER TREATMENT FACILITIES. VEE IS A PLANNED AND ORGANIZED APPROACH WHICH DEVELOPS ALTERNATIVES FOR PROCESS REQUIREMENTS AT MINIMUM ENERGY CONSUMPTION LEVELS.

AVAILABILITY: THE AMERICAN CITY & COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD,MA 01201 (COPIES OF ARTICLES ARE FREE)

IRIS ACCESSION NUMBER: EW003984

PUBLICATION DATE: JUN 78

TITLE: MAKE SEWAGE WORKS WORK.

DESCRIPTOR: *CONSULTANTS; EDUCATIONAL NEEDS; ENVIRONMENTAL INFLUENCES; *EVALUATION; *FACILITY GUIDELINES; JOB SKILLS; *MANGEMENT; *OPERATIONS (WASTEWATER); *OPERATIONS ANALYSIS; PERSONNEL; *TRAINING; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 78-81P.

ABSTRACT: THE ARTICLE PRESENTS THE EXPERIENCE OF THE WINSTON-SALEM, NORTH CAROLINA, WASTE TREATMENT PLANT IN CORRECTING OPERATIONAL PROBLEMS. CHANGES INCLUDED PREPARING AN ORGANIZATION CHART, ESTABLISHING DEFINITIVE JOB DESCRIPTIONS, SIMPLIFYING CERTAIN OPERATIONS , AND PROVIDING OPERATOR TRAINING.

AVAILABILITY: THE AMERICAN CITY & COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD, MA 01201 (COPIES OF ARTICLES ARE FREE)

INSTITUTION NAME: THE AMERICAN CITY & COUNTY MAGAZINE.

IRIS ACCESSION NUMBER: EW003985

PUBLICATION DATE: JUN 78

TITLE: PEROXIDE TURNS SEPTIC POND INTO COMMUNITY ASSET.

DESCRIPTOR: *CHEMICAL REACTIONS; ENVIRONMENT ; *HYDROGEN PEROXIDE; HYDROGEN SULFIDE; *MANAGEMENT; *ODORS; *PUBLIC HEALTH; *SEPTIC PONDS; *TECHNOLOGY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 93P.

ABSTRACT: THIS ARTICLE REPORTS ON THE SUCCESSFUL USE OF HYDROGEN PEROXIDE TO CONTROL HYDROGEN SULFIDE ODORS FROM A SEPTIC POND.

AVAILABILITY: THE AMERICAN CITY & COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD,MA 01201 (COPIES OF ARTICLES ARE FREE)

INSTITUTION NAME: THE AMERICAN CITY 8 COUNTY MAGAZINE.

IRIS ACCESSION NUMBER: EW003986

PUBLICATION DATE: JUL 78

TITLE: IT MAY BE SLUDGE TO YOU.

DESCRIPTOR: AGRICULTURAL PRODUCTION; COST EFFECTIVENESS; CHEMICAL ANALYSIS; *ENVIRONMENT; *LAND APPLICATION; *LAND USE; *MUNICIPALITIES; *RECYCLING; RESEARCH; *SOILS; *SLUDGE; *WASTE DISPOSAL; *WASTEWATER TREATMENT

ABSTRACT: THIS ARTICLE PRESENTS VARIOUS OPTIONS AVAILABLE TO MUNICIPALITIES WISHING TO FIND ALTERNATIVES FOR TRADITIONAL SEWAGE SLUDGE DISPOSAL. GUIDELINES ARE PROVIDED FOR ANALYZING SLUDGE, INVESTIGATING LAND APPLICATION OPTIONS, AND TRANSPORTING AND APPLING THE MATERIALS. EXAMPLES OF OTHER COMMUNITIES SUCCESSES ARE DISCUSSED.

AVAILABILITY: THE AMERICAN CITY 8 COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD, MA 01201

INSTITUTION NAME: THE AMERICAN CITY 8 COUNTY MAGAZINE.

IRIS ACCESSION NUMBER: EW003987
PUBLICATION DATE: SEP 78

TITLE: TOXIC CHEMICAL CONTROL GOES PUBLIC.

DESCRIPTOR: CHEMICALS; *CHEMICAL ANALYSIS; CLEAN WATER ACT OF 1977; *INDUSTRIES; *POLLUTANTS; PUBLIC HEALTH; *PRETREATMENT; *REGULATIONS; *STANDARDS; *TOXIC SUBSTANCES; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 51-56P.

ABSTRACT: DISCUSSED ARE THE RESPONSIBILITIES OF PUBLICLY-OWNED TREATMENT WORKS FOR IDENTIFYING POLLUTANTS DISCHARGED BY INDUSTRIAL USERS. NEW AND EXISTING USERS MUST NOW COMPLY WITH THE NATIONAL INDUSTRIAL PRETREATMENT STANDARDS AS SET FORTH IN THE CLEAN WATER ACT OF 1977.

AVAILABILITY: THE AMERICAN CITY 8 COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD, MA 01201

INSTITUTION NAME: THE AMERICAN CITY 8 COUNTY MAGAZINE.

IRIS ACCESSION NUMBER: EW003988

PUBLICATION DATE: OCT 78

TITLE: A RATIONAL SEWER USE CHARGE.

PERSONAL AUTHOR: UMBAUGH, H.J

DESCRIPTOR: COST EFFECTIVENESS; ENVIRONMENTAL INFLUENCES; FACILITY GUIDELINES; MAINTAINENCE COSTS; *MUNICIPALITIES; OPERATING COSTS; *SEWERS; *UTILITIES; *USER CHARGES; WASTE DISPOSAL; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 73-74P.

ABSTRACT: DISCUSSED ARE THE GUIDELINES SET FORTH BY E.P.A. IN RELATION TO RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL USER CHARGES FOR WASTEWATER COLLECTION SYSTEMS AND TREATMENT WORKS. CATEGORIES FINANCED BY USER CHARGES INCLUDE: (1) OPERATING AND MAINTENANCE COSTS; (2) REPLACEMENT COSTS; (3) DEBT SERVICE; AND (4) EXCESS FUNDS.

AVAILABILITY: THE AMERICAN CITY 8 COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD, MA 01201

IRIS ACCESSION NUMBER: EW003989

PUBLICATION DATE: NOV 78

TITLE: WE CONTRACTED-OUT WASTEWATER QUALITY.

DESCRIPTOR: *CONTRACTED SERVICES; *CONSULTANTS; *COST EFFECTIVENESS; DECISION MAKING; *MANPOWER NEEDS; *MANAGEMENT; MUNICIPALITIES; *OPERATIONS (WASTEWATER); PERSONNEL; UTILITIES; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL
DESCRIPTIVE NOTE: 43-46P.

ABSTRACT: DISCUSSED IS THE EXPERIENCE OF GREAT FALLS, MONTANA IN UTILIZING A PRIVATE CONSULTING FIRM TO STAFF AND OPERATE THE CITY'S NEW SECONDARY WASTEWATER TREATMENT PLANT.

AVAILABILITY: THE AMERICAN CITY 8 COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD, MA 01201 (COPIES OF ARTICLES ARE FREE)

INSTITUTION NAME: THE AMERICAN CITY 8 COUNTY MAGAZINE.

IRIS ACCESSION NUMBER: EW003990

PUBLICATION DATE: DEC 78

TITLE: O 8 M: THE UNSUBSIDIZED COST OF SEWAGE TREATMENT.

DESCRIPTOR: *COST EFFECTIVENESS; ECONOMICS; ENVIRONMENTAL INFLUENCES; FACILITIES; FACILITY GUIDELINES; *MAINTENANCE; *MANAGEMENT; MUNICIPALITIES; *OPERATIONS (WASTEWATER); PERSONNEL; *RESEARCH; SURVEYS; UTILITIES; WASTEWATER TREATMENT COSTS; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 35-37P.

ABSTRACT: THIS ARTICLE REPORTS THE FINDINGS OF A STUDY OF

OPERATING AND MAINTENANCE COSTS OF WASTEWATER TREATMENT FACILITIES THROUGHOUT THE U.S. THE STUDY CONFIRMS THE CONCEPT OF ECONOMY OF SCALE.

AVAILABILITY: THE AMERICAN CITY 8 COUNTY MAGAZINE, BERKSHIRE COMMON, PITTSFIELD, MA 31201 (COPIES OF ARTICLES ARE FREE).

INSTITUTION NAME: THE AMERICAN CITY 8 COUNTY MAGAZINE.

IRIS ACCESSION NUMBER: EW003991

PUBLICATION DATE: JUN 79

TITLE: ECONOMICS AND OPERATION EFFICIENCIES OF GRAVITY SEDIMENTATION EQUIPMENT.

PERSONAL AUTHOR: GRIMES, CHARLES B

DESCRIPTOR: *ECONOMICS; *OPERATIONS(WASTEWATER); *EQUIPMENT UTILIZATION; *WASTE DISPOSAL; TECHNOLOGY; UTILITIES; ENGINEERING; *GRAVITY; SEDIMENTATION; *WASTEWATER TREATMENT

ABSTRACT: COMPARED ARE THREE DEVELOPMENTS IN GRAVITY SEDIMENTATION. THE APPLICATIONS, EFFECTIVENESS, AND COST EFFICIENCY EVALUATION OF THE THREE TECHNIQUES ARE DISCUSSED.

AVAILABILITY: POLLUTION ENGINEERING; V11, N6 P45-48, JUN 79

IRIS ACCESSION NUMBER: EW003992

PUBLICATION DATE: JUN 79

TITLE: KEYSTONE FINDS THE WAY AROUND WITH VACUUM SEWER.

PERSONAL AUTHOR: SCHWARTZ, STEPHEN M

DESCRIPTOR: *WASTE DISPOSAL; WATER POLLUTION CONTROL; ENGINEERING; *OPERATIONS(WASTEWATER); PUMPS; *STEEL INDUSTRY; *WASTEWATER TREATMENT; SEWERS; *VACUUM SEWERS

DESCRIPTIVE NOTE: 51P.

ABSTRACT: THIS ARTICLE DISCUSSES THE INSTALLATION AND USE OF A VACUUM SEWER SYSTEM AT THE KEYSTONE CONSOLIDATED INDUSTRIES PLANT IN ILLINOIS.

AVAILABILITY: POLLUTION ENGINEERING; V11, N6, P51, JUN79

IRIS ACCESSION NUMBER: EW003993

PUBLICATION DATE: JUN 79

TITLE: HAZARDOUS WASTES GET THE TREATMENT FOR REUSE.

PERSONAL AUTHOR: YOUNG, RICHARD A

DESCRIPTOR: *WASTE DISPOSAL; *TOXIC SUBSTANCES; *WASTEWATER TREATMENT; *CHEMICAL REACTIONS; WATER POLLUTION CONTROL; INDUSTRY; EQUIPMENT; *RECYCLING; *COMPLIANCE

ABSTRACT: THIS ARTICLE DESCRIBES A WASTE-TO-WASTE PROCESSING AND RECOVERY FACILITY TO HANDLE TOXIC AND HAZARDOUS WASTES IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

AVAILABILITY: PULLUTION ENGINEERING; V11, N6 P54-56, JUN79

IRIS ACCESSION NUMBER: EW003994

PUBLICATION DATE: JUN 79

TITLE: 1979 DIRECTORY OF ENVIRONMENTAL CONSULTANTS AND SERVICE COMPANIES

DESCRIPTOR: *AIR POLLUTION CONTROL; *WATER POLLUTION CONTROL; ENGINEERING; WASTE DISPOSAL; ENERGY; *PROFESSIONAL SERVICES; *RESOURCE GUIDES; *CONSULTANTS; *DIRECTORIES

ABSTRACT: THIS ARTICLE LISTS INDIVIDUALS AND COMPANIES OFFERING PROFESSIONAL SERVICES ON A FEE BASIS IN THE ENVIRONMENTAL AREAS OF CONSULTING AND CONTRACTING SERVICES. EIGHTEEN SPECIFIC SERVICES HAVE BEEN IDENTIFIED AND ARE KEYED WITH EACH COMPANY PROVIDING THAT SERVICE.

AVAILABILITY: POLLUTION ENGINEERING; V11, N6, P59-104, JUN 79

IRIS ACCESSION NUMBER: EW003995

PUBLICATION DATE: JUN 77

TITLE: DESIGN OF SMALL WASTE STABILIZATION PONDS.

DESCRIPTOR: *CONSTRUCTION; DESIGN; *ENGINEERING; FACILITY GUIDELINES; LAND USE; MAINTENANCE; POLLUTION; PUBLIC HEALTH; SOILS; *STABILIZATION PONDS; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 5P.

ABSTRACT: PROVIDED IS A LIST OF CRITERIA FOR USING STABILIZATION PONDS FOR WASTE TREATMENT BY COMMERCIAL ESTABLISHMENTS, GROUP DWELLINGS, AND SMALL AGRICULTURAL OPERATIONS. INCLUDED ARE DESIGN, CONSTRUCTION, AND OPERATING CONCERNS.

AVAILABILITY: EPA INFORMATION DISSEMINATION PROJECT, 1200 CHAMBERS RD. RM. 209, COLUMBUS, OHIO 43212 (FREE)

INSTITUTION NAME: NORTH DAKOTA STATE DEPARTMENT OF HEALTH, BISMARCK, ND.

IRIS ACCESSION NUMBER: EW004010
PUBLICATION DATE: SEP 66

TITLE: WATER AND WASTES ENGINEERING. MANUAL OF PRACTICE NUMBER ONE. PUMPS AND PUMPING.

PERSONAL AUTHOR: SYMONS, GEORGE E

DESCRIPTOR: *DESIGN; ENGINEERING; *EQUIPMENT STANDARDS; *MAINTENANCE; MECHANICAL EQUIPMENT; *OPERATIONS; *PUMPS; UTILITIES; *WATER SUPPLY; *WATER TREATMENT; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 36P.

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF MANUALS OF PRACTICE PROVIDING INFORMATION ON THE DESIGN, INSTALLATION, OPERATION, MAINTENANCE AND MANAGEMENT OF EQUIPMENT FOR WATER AND WASTES ENGINEERING. THIS VOLUME IS CONCERNED WITH PUMPS AND PUMPING. THE INFORMATION IS ARRANGED TO AID IN DESIGNING SYSTEMS, EVALUATING COMPONENTS AND SURVEYING MATERIALS. THE TEXT IS SUPPLEMENTED WITH DIAGRAMS, CHARTS, TABLES AND PHOTOS.

AVAILABILITY: DUN-DONNELLEY PUBLISHING CORP., 666 FIFTH AVE., NEW YORK, NY 10019 ($2.00)

IRIS ACCESSION NUMBER: EW004011

PUBLICATION DATE: MAY 67
TITLE: WATER AND WASTES ENGINEERING. MANUAL OF PRACTICE NUMBER TWO. WATER SYSTEMS. PIPES AND PIPING.

PERSONAL AUTHOR: SYMONS, GEORGE E

DESCRIPTOR: CONSTRUCTION; DESIGN; *DISTRIBUTION SYSTEMS; ENGINEERING; *EQUIPMENT STANDARDS; INSTALLATION; *MAINTENANCE; MECHANICAL EQUIPMENT; *OPERATIONS(WATER) *PIPES; UTILITIES; *WATER TREATMENT; *WATER SUPPLY

DESCRIPTIVE NOTE: 40P.

ABSTRACT: THIS DOUCMENT IS ONE IN A SERIES OF MANUALS OF PRACTICE PROVIDING INFORMATION ON THE DESIGN, INSTALLATION, OPERATION, MAINTENANCE, AND MANAGEMENT OF EQUIPMENT FOR WATER SUPPLY ENGINEERING. THIS VOLUME IS CONCERNED WITH PIPES AND PIPING. THE INFORMATION IS ARRANGED TO AID IN DESIGNING SYSTEMS, EVALUATING COMPONENTS, AND SURVEYING MATERIALS. THE TEXT IS SUPPLEMENTED WITH DIAGRAMS, CHARTS, TABLES, AND PHOTOS.

AVAILABILITY: DUN-DONNELLEY PUBLISHING CORP., 666 FIFTH AVE., NEW YORK, NY 10019 ($2.00)

IRIS ACCESSION NUMBER: EW004012
PUBLICATION DATE: SEP 67

TITLE: WATER AND WASTES ENGINEERING. MANUAL OF PRACTICE NUMBER THREE. WASTEWATER SYSTEMS. PIPES AND PIPING.

PERSONAL AUTHOR: SYMONS, GEORGE E

DESCRIPTOR: *DESIGN; *DISTRIBUTION SYSTEMS; *EQUIPMENT STANDARDS; ENGINEERING; *INSTALLATION; *MAINTENANCE; *OPERATIONS (WASTEWATER); *PIPES; PUBLIC HEALTH; *SEWERS; UTILITIES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 52P.

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF MANUALS OF PRACTICE PROVIDING INFORMATION ON THE DESIGN, INSTALLATION, OPERATION, MAINTENANCE AND MANAGEMENT OF EQUIPMENT FOR WASTEWATER SYSTEMS ENGINEERING. THIS VOLUME IS CONCERNED WITH PIPES AND PIPING. THE INFORMATION IS ARRANGED TO AID IN DESIGNING SYSTEMS, EVALUATING COMPONENTS, AND SURVEYING MATERIALS. THE TEXT IS SUPPLEMENTED WITH DIAGRAMS, CHARTS, TABLES, AND PHOTOS.

AVAILABILITY: DUN-DONNELLEY PUBLISHING CORP., 666 FIFTH AVE., NEW YORK, NY 10019 ($2.00)

IRIS ACCESSION NUMBER: EW004013

PUBLICATION DATE: MAY 68
TITLE: WATER AND WASTES ENGINEERING. MANUAL OF PRACTICE NUMBER FOUR. DESIGN AND SELECTION: VALVES, HYDRANTS, AND FITTINGS.

PERSONAL AUTHOR: SYMONS, GEORGE E

DESCRIPTOR: DESIGN; *EQUIPMENT STANDARDS; *ENGINEERING; *FITTINGS; *HYDRANTS; MAINTENANCE; PUBLIC HEALTH; UTILITIES; *VALVES; *WATER SUPPLY

DESCRIPTIVE NOTE: 50P.

ABSTRACT: THIS DOCUMENT IS ONE IN A SERIES OF MANUALS OF PRACTICE PROVIDING INFORMATION ON THE DESIGN, INSTALLATION, OPERATION, MAINTENANCE, AND MANAGEMENT OF EQUIPMENT FOR WATER AND WASTE SYSTEMS ENGINEERING. THIS VOLUME DISCUSSES THE DESIGN AND SELECTION OF VALVES, HYDRANTS, AND FITTINGS. THE TEXT IS SUPPLEMENTED WITH DIAGRAMS, CHARTS, TABLES, AND PHOTOS.

AVAILABILITY: DUN-DONNELLEY PUBLISHING CORP., 666 FIFTH AVE., NEW YORK, NY 10019 ($2.00)

IRIS ACCESSION NUMBER: EW004014

TITLE: A COLLECTION OF REFERENCE ARTICLES ON COAGULANTS AND COAGULATION. PREPARED BY LEADING AUTHORITIES.

PERSONAL AUTHOR: SYMONS, GEORGE E., ED

DESCRIPTOR: ALUMINUM SULFATE; CARBON; *CHEMICAL REACTIONS; *COST EFFECTIVENESS; *COAGULATION; *COAGULANTS; *ENGINEERING; ENVIRONMENTAL INFLUENCES; FERRIC SULFATE; *OPERATIONS(WATER); OPERATIONS(WASTEWATER); PUBLIC HEALTH; SILICA; SODIUM ALUMINATE; TECHNOLOGY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 40P.

ABSTRACT: THIS REPRINT IS A REFERENCE WORK ON THE BROAD VIEW OF THE SUBJECT OF COAGULATION AS IT IS APPLIED IN WATER SUPPLY AND WASTEWATER DISPOSAL OPERATIONS. TOPICS DISCUSSED INCLUDE: (1) PROCESS CONTROL; (2) FERRIC SULFATE AS A COAGULANT; (3) THE USE OF ACTIVATED CARBON; (4) DEMINERALIZE PERFORMANCE; (5) ELECTROPHORETIC EVALUATION; AND (6) THE ECONOMICS OF COAGULANTS.

AVAILABILITY: DUN-DONNELLEY PUBLISHING CORP., 666 FIFTH AVE., NEW YORK, NY 10019 ($2.50)

IRIS ACCESSION NUMBER: EW004015

TITLE: A GENERALIZED APPROACH TO ACTIVATED SLUDGE.

PERSONAL AUTHOR: LESPERANCE, T.W

DESCRIPTOR: *ACTIVATED SLUDGE; BIOCHEMISTRY; DESIGN; EQUIPMENT; *FACILITY GUIDELINES; MANAGEMENT; *OPERATIONS(WASTEWATER); *SLUDGE; STANDARDS; UTILITIES; *WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 31P.

ABSTRACT: THIS REPRINT IS A REFERENCE WORK ON THE BROAD VIEW OF THE SUBJECT OF ACTIVATED SLUDGE AS IT IS APPLIED IN SEWAGE AND WASTEWATER DISPOSAL OPERATIONS. TOPICAL AREAS INCLUDE: (1) BASIC BIOCHEMICAL REACTION; (2) DEVELOPING THE PROCESS; (3) PROCESS VARIANTS, CONVENTIONAL TREATMENT; AND (4) EXTENDED AERATION AND HIGH RATE TREATMENT.

AVAILABILITY: DUN-DONNELLEY PUBLISHING CORP., 666 FIFTH AVE., NEW YORK, NY 10019 ($3.00)

IRIS ACCESSION NUMBER: EW004016

TITLE: A GUIDE TO INSTRUMENTATION, CONTROL, AND AUTOMATION FOR WATER SUPPLY SYSTEMS.

PERSONAL AUTHOR: SYMONS, GEORGE E., ED

DESCRIPTOR: *AUTOMATION; EQUIPMENT; *ENGINEERING; *INSTRUMENTATION; *OPERATIONS(WATER); TECHNOLOGY; UTILITIES; *WATER SUPPLY; *WATER TREATMENT; WATER QUALITY

DESCRIPTIVE NOTE: 56P.

ABSTRACT: THE ARTICLES REPRINTED IN THIS HANDBOOK ARE DEVOTED TO THE SUBJECT OF INSTRUMENTATION AND AUTOMATION IN THE FIELD OF WATER SUPPLY. THE ARTICLES PROVIDE INFORMATION ON THE DESIGN, MANAGEMENT, OPERATION AND MAINTENANCE OF WATER SUPPLY SYSTEMS INCLUDING SPECIFIC APPLICATIONS, INSTALLATIONS, AND OPERATIONS OF INSTRUMENTS, AND CONTROLS FOR PROCUREMENT, TREATMENT, AND DISTRIBUTION.

AVAILABILITY: DUN-DONNELLEY PUBLISHING CORP., 666 FIFTH AVE., NEW YORK, NY 10019 ($2.50)

IRIS ACCESSION NUMBER: EW004017

PUBLICATION DATE: 66

TITLE: INSTRUMENTATION AND CONTROL IN WATER SUPPLY AND WASTEWATER DISPOSAL.

PERSONAL AUTHOR: BABCOCK, RUSSELL H

DESCRIPTOR: *AUTOMATION; *AUTOMATIC CONTROLS; COMPUTERS; *ENGINEERING; *EQUIPMENT; FLOW MEASUREMENT; INDUSTRY; INDUSTRIAL WASTES; *INSTRUMENTATION; MEASUREMENT; *OPERATIONS; POLLUTION; UTILITIES; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 89P.

ABSTRACT: THE 13 CHAPTERS IN THIS DOCUMENT CONSIDER THE FUNDAMENTALS OF INSTRUMENTATION AND CONTROL OF MUNICIPAL AND INDUSTRIAL WATER SUPPLY AND WASTEWATER DISPOSAL. EACH CHAPTER IS CONCERNED WITH A SPECIFIC SUBJECT AREA AND IS ILLUSTRATED TO AMPLIFY ITS USEFULNESS. TOPIC AREAS INCLUDE: (1) FLOW MEASUREMENT; (2) ANALYTICAL MEASUREMENTS; (3) ELEMENTS OF AUTOMATIC CONTROL; (4) ANALOG COMPUTERS; (5) CHEMICAL FEEDER CONTROL; AND (6) MUNICIPAL AND INDUSTRIAL TREATMENT PLANT INSTRUMENTATION.

AVAILABILITY: DUN-DONNELLEY PUBLISHING CORP., 666 FIFTH AVE., NEW YORK, NY 10019 ($6.50)

IRIS ACCESSION NUMBER: EW004018

TITLE: INDUSTRIAL POLLUTION CONTROL.

PERSONAL AUTHOR: HECKROTH, CHARLES W., ED

DESCRIPTOR: ECONOMICS; ENGINEERING; ENVIRONMENT; *INDUSTRY; *INDUSTRIAL WASTES; LAND USE; *MANAGEMENT; *OPERATIONS(WASTEWATER); POLLUTION; TECHNOLOGY; WATER QUALITY; *WASTE DISPOSAL; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 64P.

ABSTRACT: THE ARTICLES REPRINTED IN THIS HANDBOOK PROVIDE A HOW-TO APPROACH FOR POLLUTION CONTROL FOR INDUSTRIAL AND COMMERCIAL PLANTS. TOPICS RANGE FROM EXISTING POLLUTION PROBLEMS, THROUGH THE USE OF CONSULTING ENGINEERS, ADOPTION OF AN ENVIRONMENTAL MANAGEMENT PROGRAM, SURCHARGES ON WASTES, MONITORING AND PROCESS CONTROL, TO INCREASING PLANT EFFICIENCY AND ECONOMICALLY DISPOSING OF WASTES.

AVAILABILITY: DUN-DONNELLEY PUBLISHING CORP., 666 FIFTH AVE., NEW YORK, NY 10019 ($3.00)

IRIS ACCESSION NUMBER: EW004019

PUBLICATION DATE: MAR 79

TITLE: CHLORINE DIOXIDE AND ITS APPLICATION IN DRINKING WATER TREATMENT TECHNOLOGY.

PERSONAL AUTHOR: WARD, WILLIAM J.

DESCRIPTOR: CHEMICAL REACTIONS; * CHLORINE DIOXIDE; *EQUIPMENT; *MONITORING; PUBLIC HEALTH; *SAFETY; *TECHNOLOGY; *UTILITIES; *WATER TREATMENT

DESCRIPTIVE NOTE: 9P.

ABSTRACT: THE USE OF CHLORINE DIOXIDE IN THE TREATMENT OF PUBLIC DRINKING WATER IS THE FOCUS OF THIS DOCUMENT. AFTER CITING RESEARCH WHICH HAS LED TO INCREASED ACCEPTANCE OF CHLORINE THE TEXT DISCUSSES APPLICATION TECHNIQUES. AREAS PRESENTED INCLUDE: (1) CHLORINE DIOXIDE GENERATION; (2)SAFETY CONSIDERATIONS; (3) SYSTEM CONTRUCTION; (4) POINTS OF APPLICATION; (5) TESTING AND MONITORING; AND (6) COSTS.

AVAILABILITY: EPA INFORMATION DISSEMINATION PROJECT, 1200 CHAMBERS RD., 2ND FLOOR, COLUMBUS OHIO 43212 ($1.00 PLUS 3^ PER PAGE) NOTE: PRESENTED AT 34TH ANNUAL CONFERENCE KANSAS SECTION, AMERICAN WATER WORKS ASSOCIATION, MARCH 21-23, 1979

IRIS ACCESSION NUMBER: EW004020

PUBLICATION DATE: 77

TITLE: RECOMMENDED WORK PRACTICES FOR A/C PIPE.

DESCRIPTOR: AIR POLLUTION CONTROL; *ASBESTOS; *EQUIPMENT UTILIZATION; JOB SKILLS; *PIPES; *SAFETY; STANDARDS

DESCRIPTIVE NOTE: 20P.

ABSTRACT: THIS BOOKLET PROVIDES INFORMATION ABOUT THE POTENTIAL HAZARDS OF EXPOSURE TO AIRBORNE ASBESTOS AND THE MEANS OF REDUCING SUCH POTENTIAL HAZARDS THROUGH GOOD WORK PRACTICES. INCLUDED ARE CONCERNS ON HANDLING, SHIPPING, CUTTING, MACHINING, AND TAPPING PIPES. ALSO INCLUDED IS A DISCUSSION ON HANDLING WASTES.

AVAILABILITY: A/C PIPE PRODUCERS ASSOCIATION, 1600 WILSON BLVD., SUITE 1308, ARLINGTON, VA 22209 (FREE)

INSTITUTION NAME: A/C PIPE PRODUCERS ASSOCIATION.

IRIS ACCESSION NUMBER: EW004021

PUBLICATION DATE: 73

TITLE: INDUSTRIAL WASTE OPERATIONS SECTION.

DESCRIPTOR: *INSPECTION; *INSERVICE PROGRAMS; *JOB SKILLS; *INDUSTRIAL WASTES; *LOS ANGELES; *PERMITS; *PUBLIC RELATIONS; SAFETY; SANITATION; WASTE COLLECTION; *WATER POLLUTION CONTROL; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 111P.

ABSTRACT: THE INDUSTRIAL WASTE OPERATIONS SECTION OF THE CITY OF LOS ANGELES IS RESPONSIBLE FOR ISSUING PERMITS AND CONDUCTING INSPECTIONS PERTAINING TO THE DISPOSAL OF INDUSTRIAL WASTES INTO SEWAGE OR STORM DRAIN SYSTEMS. THIS MANUAL PROVIDES A DESCRIPTION OF THE RESPONSIBILITIES OF THIS SECTION INCLUDING; (1) APPLICATION REVIEW; (2) EQUIPMENT UTILIZED; (3) INSPECTOR DUTIES AND QUALIFICATIONS; (4) SAFETY; (5) PUBLIC RELATIONS; AND (6) TREATMENT METHODS. THE INFORMATION IS PRESENTED AS A SERIES OF IN-SERVICE MEMOS BUT HAS BEEN ORGANIZED AS A TRAINING OUTLINE FOR PERSONNEL.

AVAILABILITY: EPA INFORMATION DISSEMINATION PROJECT, 1200 CHAMBERS RD., 2ND FLOOR, COLUMBUS, OHIO 43212 ($1.00 PLUS 3^ PER PAGE)

INSTITUTION NAME: INDUSTRIAL WASTE CONTROL, 2335 DORRIS PLACE, LOS ANGELES, CA 90031.

IRIS ACCESSION NUMBER: EW004022

PUBLICATION DATE: JUN 79

TITLE: RP PANELS FORM CORROSION-RESISTANT TRICKLING FILTER WALLS.

PERSONAL AUTHOR: NAJARIAN, JOHN L

DESCRIPTOR: *CONSTRUCTION; ENVIRONMENT; *FACILITY GUIDELINES; *WASTEWATER TREATMENT; TECHNOLOGY; *EQUIPMENT STANDARDS; *TRICKLING FILTERS; *CORROSION

ABSTRACT: REPORTED IS THE USE OF REINFORCED PLASTIC PROTECTED WALLS TO EFFECT CORROSION RESISTANT, EFFICIENT TRICKLING FILTERS FOR WASTEWATER TREATMENT PLANT STRUCTURES.

AVAILABILITY: UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106. WATER AND SEWAGE WORKS, V126, N6, P60, JUN 79

IRIS ACCESSION NUMBER: EW004023

PUBLICATION DATE: JUN 79

TITLE: O&M TRAINING NEEDS DEMAND MONEY, PATIENCE, AND TIME.

PERSONAL AUTHOR: HANLON, JOSEPH

DESCRIPTOR: *ENGINEERS; *WASTEWATER TREATMENT; *OPERATIONS(WASTEWATER); EQUIPMENT; MUNICIPALITIES; JOB TRAINING; *MAINTENANCE; *EDUCATIONAL NEEDS

DESCRIPTIVE NOTE: 61P.

ABSTRACT: THIS ARTICLE FOCUSES ON THE NEED FOR TRAINED PERSONNEL TO IMPROVE AND ELIMINATE WASTEWATER TREATMENT PLANT OPERATING DEFICIENCIES.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126, N6, P61, JUN79., UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW004024

PUBLICATION DATE: JUN 79

TITLE: VERDICT STILL UNDECIDED ON BEST SYSTEM FOR SETTLEABILITY. PART 2.

PERSONAL AUTHOR: BENEFIELD, LARRY D.; RANDALL, CLIFFORD W

DESCRIPTOR: *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *RESEARCH; CHEMICAL REACTIONS; *OPERATIONS(WASTEWATER); ENGINEERING; EQUIPMENT UTILIZATION; *ACTIVATED SLUDGE; *SLUDGE; OXYGEN

ABSTRACT: THIS ARTICLE IS A CONTINUATION OF INVESTIGATIONS INTO THE SUPERIORITY OF OXYGEN OVER AIR FOR ACTIVATED SLUDGE PROCESSING. REPORTED ARE THE RESULTS OF FIELD TEXTS CONDUCTED BY THE AUTHORS.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126, N6, P70-72, JUN79., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW004025

PUBLICATION DATE: JUN 79

TITLE: CCDT BESTS RYZNER INDEX AS PIPE CACO3 FILM PREDICTOR.

PERSONAL AUTHOR: MCCLELLAND, NINA I.; MANCY. K.H

DESCRIPTOR: *CHEMICAL REACTIONS; *EQUIPMENT; HYDRAULICS; OPERATIONS(WATER); UTILITIES; DISTRIBUTION SYSTEMS; *PIPES; *WATER SUPPLY; *CALCIUM CARBONATE; *MAINTENANCE

ABSTRACT: REPORTED ARE FIELD TESTS FOR CALCIUM CARBONATE DEPOSITION USING A SPECIAL POLARGRAPH TECHNIQUE TO PREDICT WHETHER OR NOT FILMS OF CALCIUM CARBONATE WILL FORM ON THE SURFACE OF DISTRIBUTION SYSTEM PIPELINES.

AVAILABILITY: WATER AND SEWAGE WORKS; V126, N6, P77-81, JUN 79., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW004026

PUBLICATION DATE: JUN 79

TITLE: ECONOMICS AND WATER CONSERVATION.

PERSONAL AUTHOR: SCHAEFER, RICHARD K

DESCRIPTOR: *WATER RESOURCES; *CONSERVATION; *ECONOMICS; *ENVIRONMENT; ENVIRONMENTAL EDUCATION; *COST EFFECTIVENESS; TECHNOLOGY; *UTILITIES

ABSTRACT: THIS ARTICLE DISCUSSES FEASIBLE SOLUTIONS FOR WATER CONSERVATION IN THE LIGHT OF PRESENT, FUTURE, MONETARY, AND ENVIRONMENTAL BENEFITS. THE USE OF COST EFFECTIVE ANALYSES IS STRESSED.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126, N6, P82-86,JUN79., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW004027

PUBLICATION DATE: JUN 79

TITLE: FROM SCREENING TO FILTRATION: TREATING THE WATER SUPPLY.

PERSONAL AUTHOR: HUNDAL, H.S.; AND OTHERS

DESCRIPTOR: *WATER TREATMENT; *EQUIPMENT; *OPERATIONS(WATER); WATER POLLUTION CONTROL; *COST EFFECTIVENESS; UTILITIES; *SCREENING; *COAGULATION; *FILTRATION

ABSTRACT: THIS ARTICLE IS THE SECOND IN A SERIES WHICH DISCUSS THE BASIS OF POTABLE-WATER SUPPLY FORM SOURCE TO TAP. COVERED IN THIS SECTION ARE SCREENING, COAGULATION, AND FILTRATION.

AVAILABILITY: WATER AND SEWAGE WORKS; V126, N6, P88-90, JUN79., UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW004028

PUBLICATION DATE: JUN 79

TITLE: LA TI ADDING TO ITS COMPUTER CAPABILITY.

PERSONAL AUTHOR: WIEDERMAN, ED

DESCRIPTOR: *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *UTILITIES; *COMPUTERS; OPERATIONS(WASTEWATER); EQUIPMENT; *COMPUTER APPLICATION; *AUTOMATION; CALIFORNIA

DESCRIPTIVE NOTE: 92P.

ABSTRACT: DISCUSSED IS A PROJECT UNDERWAY BY THE CITY OF LOS ANGELES TO EXTEND ITS COMMITMENT TO COMPUTER-BASED

PROCESS-CONTROL SYSTEMS FOR WASTEWATER TREATMENT.

AVAILABILITY: WATER & SEWAGE WORKS; V126, N6, P92, JUN 79., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW004029

PUBLICATION DATE: JUN 79

TITLE: FAULTY WASTE DISPOSAL PRACTICES ENDANGER GROUNDWATER QUALITY.

PERSONAL AUTHOR: LAKSHMAN, BANGALORE T

DESCRIPTOR: *WASTE DISPOSAL; *POLLUTION; *WATER POLLUTION CONTROL; *GROUNDWATER; FEDERAL LEGISLATION; *LAND USE; WATER RESOURCES; *ENVIRONMENT; *PUBLIC HEALTH

ABSTRACT: DISCUSSED IS THE MAGNITUDE OF THE GROUNDWATER CONTAMINATION PROBLEM IN THE U.S. AND THE RIGOROUS CONTROLS WHICH HAVE BEEN IMPOSED ON THE INSTALLATION, OPERATION, AND MAINTENANCE OF LIQUID AND SOLID WASTE DISPOSAL SITES.

AVAILABILITY: WATER & SEWAGE WORKS; V126, N6, P94-98, JUN79., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW004030

PUBLICATION DATE: JUN 79

TITLE: INSECTICIDE KILLS FLIES, SPARES WATER.

PERSONAL AUTHOR: WILLIAMS, J.M.; AND OTHERS

DESCRIPTOR: *ENVIRONMENTAL INFLUENCES; *PESTICIDES; *PUBLIC HEALTH; ENTOMOLOGY; *WATER POLLUTION CONTROL; *WASTE WATER TREATMENT; *INSECTICIDES; *WATER QUALITY; ENGLAND

ABSTRACT: REPORTED IS RESEARCH UNDERTAKEN BY THE TRENT WATER AUTHORITY, ENGLAND, TO CONTROL MIDGES AND FLIES ASSOCIATED WITH WASTEWATER TREATMENT. OPERATION CHANGES AND USE OF PIRIMIPHOS-METHYL APPEAR EFFECTIVE WITHOUT FILTER PERFORMANCE DETERIORATION.

AVAILABILITY: WATER & SEWAGE WORKS; V126, N6, P99-103, JUN79., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI 48106.

IRIS ACCESSION NUMBER: EW004031

PUBLICATION DATE: JUN 79

TITLE: KEEPING AIR TOOLS WORKING.

PERSONAL AUTHOR: SCRANTON-GILLETTE STAFF ARTICLE

DESCRIPTOR: *EQUIPMENT UTILIZATION; *EQUIPMENT; *MAINTENANCE; *JOB SKILLS; *AIR TOOLS

DESCRIPTIVE NOTE: 106P.

ABSTRACT: THIS ARTICLE DISCUSSES THE USE AND MAINTENANCE OF AIR-TOOLS FOR MAXINUM LIFE AND EFFECTIVENESS.

AVAILABILITY: WATER & SEWAGE WORKS; V126, N6, P106, JUN79., UNIVERSITY MICROFILMS INTERNATIONAL, 300 N. ZEEB RD., ANN ARBOR, MI. 48106.

IRIS ACCESSION NUMBER: EW004032

PUBLICATION DATE: 79

TITLE: TREATMENT AND DISPOSAL OF WASTEWATER SLUDGES. REVISED EDITION.

PERSONAL AUTHOR: VESILIND, P. AARNE

DESCRIPTOR: CHEMISTRY; ENGINEERING; *LAND APPLICATION; LAND USE; OCEANOLOGY; PUBLIC HEALTH; RECYCLING; *SLUDGE; *TECHNOLOGY; *WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 323P.

ABSTRACT: THIS TEXT PRESENTS A DISCUSSION OT THE STATE-OF-THE-ART IN WASTEWATER SLUDGE TECHNOLOGY. CHAPTER TOPICS DEAL WITH IDENTIFYING SLUDGE SOURCES, QUANTITIES AND MANAGEMENT INCLUDING: STABILIZATION, PUMPING, THICKENING, CONDITIONING, AND DRYING AND COMBUSTION. ALSO COVERED IS A DISCUSSION OF ULTIMATE DISPOSAL BOTH ON LAND AND IN THE MARINE ENVIRONMENT. EACH CHAPTER CONTAINS A SET OF CONCLUSIONS, STUDENT PROBLEMS, AND A LIST OF REFERENCES.

AVAILABILITY: ANN ARBOR SCIENCE PUBLISHERS, INC., P.O. BOX 1425, ANN ARBOR, MI 48106 ($28.00)

IRIS ACCESSION NUMBER: EW004033

PUBLICATION DATE: 78

TITLE: NEW PROCESSES OF WASTE WATER TREATMENT AND RECOVERY.

PERSONAL AUTHOR: M ATTOCK, G., ED.

DESCRIPTOR: BIOCHEMISTRY; BIOLOGICAL TREATMENT; CHEMISTRY; ENGINEERING; *INDUSTRY; *OPERATIONS(WASTEWATER); RECYCLING; *RESEARCH; *SLUDGE; *TECHNOLOGY; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 415P.

ABSTRACT: THIS VOLUME CONSISTS OF THE EDITED PAPERS PRESENTED IN 1977 AT THE RESEARCH SYMPOSIUM ON WASTEWATER TREATMENT AND RECOVERY PROCESSES CONDUCTED BY THE SOCIETY OF CHEMICAL INDUSTRY. TOPIC AREAS PRESENTED INCLUDE: (1) GAS TRANSFER; (2) BIOLOGICAL TREATMENTS; (3) SLUDGE TREATMENTS;

(4) PHYSIOCHEMICAL AND COMBINED BIOLOGICAL-PHYSIOCHEMICAL TREATMENTS; AND (5) PROTEIN RECOVERY. EACH PRESENTATION IS SUPPLEMENTED BY CHARTS, TABLES, AND GRAPHS. SELECTED REFERENCES ARE INCLUDED.

AVAILABILITY: JOHN WILEY 8 SONS, INC., ONE WILEY DR., SOMERSET, NJ 08873 ($60.00)

IRIS ACCESSION NUMBER: EW004034

PUBLICATION DATE: 78

TITLE: HEALTH ASPECTS OF WASTEWATER RECHARGE. A STATE-OF-THE-ART REVIEW.

DESCRIPTOR: BIOLOGY; DISEASE CONTROL; GROUNDWATER; *CALIFORNIA; PUBLIC HEALTH; *RECYCLING; *RESEARCH; SOIL SCIENCE; TECHNOLOGY; *WATER RESOURCES; *WASTEWATER TREATMENT; WASTE DISPOSAL; *WATER SUPPLY; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 240P.

ABSTRACT: THIS BOOK PRESENTS A STATE-OF-THE-ART REVIEW OF THE PLANNED AUGMENTATION OF DOMESTIC WATER SOURCES WITH RECLAIMED WASTEWATER. DISCUSSION FOCUSES ON FIVE PROJECTS UNDER CONSIDERATION IN CALIFORNIA. TOPIC AREAS INCLUDE: (1) WASTEWATER CONTAMINANTS AND THEIR EFFECT ON PUBLIC HEALTH; (2) TREATMENT PROCESSES FOR WASTEWATER RECLAMATION FOR GROUNDWATER RECHARGE; (3) REMOVAL OF BIOLOGICAL AND CHEMICAL CONTAMINANTS BY SOIL SYSTEMS; AND (4) IDENTIFICATION AND MONITORING OF WASTEWATER CONSTITUENTS. THE TEXT IS SUPPLEMENTED BY CHARTS, TABLES, AND GRAPHS. EXTENSIVE REFERENCES ARE PROVIDED FOR EACH TOPIC AREA.

AVAILABILITY: WATER INFORMATION CENTER, INC., 7 HIGH ST., HUNTINGTON, NY 11743 ($22.00)

INSTITUTION NAME: STATE OF CALIFORNIA, STATE WATER RESOURCES CONTROL BOARD.

IRIS ACCESSION NUMBER: EW004035

PUBLICATION DATE: 79

TITLE: 1976 AWWA OPERATING DATA FOR WATER UTILITIES.

DESCRIPTOR: ECONOMICS; FINANCES; *MUNICIPALITIES; PUBLIC HEALTH; *SURVEYS; USER CHARACTERISTICS; *UTILITIES; WATER RATES; *WATER TREATMENT; WATER SUPPLY

DESCRIPTIVE NOTE: 206P.

ABSTRACT: THIS VOLUME PRESENTS THE RESULTS OF A SURVEY ON OPERATING DATA FOR WATER TREATMENT FACILITIES ACROSS THE UNITED STATES. NINE TABLES GIVE INFORMATION ON TOPICS SUCH AS: (1) PRODUCTION PER CAPITA; (2) WATER RATES; (3) TREATMENT PROCESSES; (4) USER CLASSIFICATIONS; (5) DISPOSITION OF INCOME; AND (6) CAPITAL EXPENDITURE AND FINANCING. A COPY OF THE SURVEY QUESTIONNAIRE IS INCLUDED FOR REFERENCE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 W. QUINCY AVE., DENVER, CO 80235 ($20.00)

INSTITUTION NAME: AMERICAN WATER WORKS ASSOCIATION.

IRIS ACCESSION NUMBER: EW004036

PUBLICATION DATE: MAY 77

TITLE: THE EFFECTIVE PUBLIC MEETING IN WATER QUALITY PLANNING. GUIDE 1.

PERSONAL AUTHOR: RAGAN, JAMES F. JR

DESCRIPTOR: BUDGETING; *CITIZEN PARTICIPATION; *ENVIRONMENT; EVALUATION METHODS; *MEETINGS; POLLUTION; *PUBLIC POLICY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 43P.

ABSTRACT: THIS GUIDE IS WRITTEN FOR PUBLIC MEETING PLANNERS AND LEADERS. THE CONTEXT OF THE GUIDE IS CITIZEN PARTICIPATION IN STATE AND AREAWIDE WATER QUALITY MANAGEMENT PLANNING. DETAILED GUIDANCE IS PROVIDED ON WHEN TO HOLD A MEETING; INTEGRATION OF MEETINGS WITH OTHER PUBLIC PARTICIPATION TECHNIQUES; SELECTING THE TYPE OF MEETING; DESIGN OF MEETING FORMAT; PREPARATION FOR THE MEETING; CONDUCT OF THE MEETING; RESPONSE TO CITIZEN INPUT; EVALUATION OF EFFECTIVENESS; AND ESTIMATION OF BUDGET FOR MEETINGS.

INSTITUTION NAME: U.S. ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF PUBLIC AFFAIRS, A-107, WASHINGTON, DC 20460 (FREE).

IRIS ACCESSION NUMBER: EW004037

PUBLICATION DATE: MAY 77

TITLE: WORKING EFFECTIVELY WITH ADVISORY COMMITTEES IN WATER QUALITY PLANNING. GUIDE 2.

PERSONAL AUTHOR: WIDDITSCH, ANN

DESCRIPTOR: *ADVISORY COMMITTEES; *CITIZEN PARTICIPATION; *ENVIRONMENT; *EVALUATION; POLLUTION; *PUBLIC POLICY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 24P.

ABSTRACT: THIS GUIDE WAS DESIGNED TO ASSIST STATE AND LOCAL AREASIDE WATER QUALITY MANAGEMENT AGENCIES TO EFFECTIVELY USE CITIZEN ADVISORY COMMITTEES IN 208 PLANNING. DISCUSSED ARE THE VARIOUS TYPES OF COMMITTEES; PURPOSES; ROLES; POWERS AND DUTIES; LIFE SPANS; AND INTERRELATIONS. AN APPENDIX IS DEDICATED TO ADVICE ON ORGANIZING OR REORGANIZING AN ADVISORY COMMITTEE. THROUGHOUT THE GUIDE EXAMPLES OF TYPICAL PROBLEMS AND INCIDENTS ARE DISCUSSED. SUGGESTIONS ARE GIVEN

FOR RULES, MEETING FORMATS, STAFF SUPPORT, TRUST-BUILDING, RESPONSE TO RECOMMENDATIONS, AND BUDGETING.

AVAILABILITY: U.S. ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF PUBLIC AFFAIRS, A-107, WASHINGTON, D.C. 20460 (FREE)

IRIS ACCESSION NUMBER: EW004039

PUBLICATION DATE: JUN 76

TITLE: EMERGENCY CONTROL PLANNING CHECKLIST FOR CHLORINE PLANTS.

PERSONAL AUTHOR: CHLORINE INSTITUTE, INC.

DESCRIPTOR: CHEMICALS; *CHLORINE; *EMERGENCY PROGRAMS; FACILITY GUIDELINES; *INSTRUCTIONAL MATERIALS; *INDUSTRY; MANAGEMENT; *SAFETY

DESCRIPTIVE NOTE: 15P.

ABSTRACT: THIS PUBLICATION PROVIDES A STEP-BY-STEP GUIDE FOR THE PREPARATION OR UPDATING OF AN EMERGENCY CONTROL PLAN IN THE EVENT OF A RELEASE OF CHLORINE. TOPICS COVERED INCLUDE: (1) EMERGENCY CREWS; (2) COMMUNICATIONS; (3) EVACUATION; (4) TRANSPORTATION; (5) MEDICAL SERVICES; (6) EQUIPMENT; AND (7) COORDINATION WITH OUTSIDE AGENCIES.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVE., NEW YORK, NY 10017 ($2.00)

IRIS ACCESSION NUMBER: EW004040

PUBLICATION DATE: JUN 79

TITLE: PRESERVE YOUR WATER MAIN INVESTMENT.

PERSONAL AUTHOR: O'CONNOR, JOHN P

DESCRIPTOR: *DISTRIBUTION SYSTEMS; *EQUIPMENT; *OPERATIONS(WATER); *UTILITIES; *WATER SUPPLY; *MAINTENANCE; COST EFFECTIVENESS; *MANAGEMENT; PUBLIC HEALTH; WATER QUALITY; WATER DISTRIBUTION

ABSTRACT: DISCUSSED IS THE DEVELOPMENT OF A PROGRAM TO PROTECT A WATER UTILITIES DISTRIBUTION SYSTEM AND THE QUALITY OF ITS PRODUCT. THE TEXT OUTLINES PROGRAM NEEDS: (1) ROUTINE MAINTENANCE, (2) MAIN CLEANING; (3) RECONDITIONING; AND (4) EMERGENCY REPAIRS.

AVAILABILITY: THE AMERICAN CITY 8 COUNTY; V94, N6, P45-50, JUN79

IRIS ACCESSION NUMBER: EW004041

PUBLICATION DATE: JUN 79

TITLE: CHLORINE: HANDLE IT WITH CARE.

DESCRIPTOR: *SAFETY; CHEMICAL REACTIONS; WATER TREATMENT; PUBLIC HEALTH; *JOB SKILLS; *FIRST AID; *CHLORINE

ABSTRACT: STRESSED ARE SAFETY PRECAUTIONS TO BE UTILIZED BY PERSONNEL HANDLING CHLORINE. THE DO'S AND DONT'S OF CHLORINE SAFETY ARE EMPHASIZED AND FIRST AID PROCEDURES OUTLINED.

AVAILABILITY: THE AMERICAN CITY 8 COUNTY; V94, N6, P55-56, JUN 79

IRIS ACCESSION NUMBER: EW004042

PUBLICATION DATE: JUN 79

TITLE: DON'T UNDERRATE TRICKLING FILTERS

DESCRIPTOR: *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *OPERATIONS(WASTEWATER); EQUIPMENT STANDARDS; *TRICKLING FILTERS; *COMPARATIVE ANALYSIS

ABSTRACT: THIS ARTICLE DISCUSSES THE EFFECTIVENESS OF TRICKLING FILTERS IN TREATING WASTEWATER AS STUDIED BY THE E.P.A. COMPARISONS ARE PROVIDED FOR PERFORMANCE VS. HYDRAULIC LOADING, PERFORMANCE VS. ORGANIC LOADING, AND THE USE OF WOOD, PLASTIC, OR ROCK MEDIA.

AVAILABILITY: THE AMERICAN CITY 8 COUNTY; V94, V6, P59-62, JUN 79

IRIS ACCESSION NUMBER: EW004061

PUBLICATION DATE: JUL 79

TITLE: ON THE ROAD TOWARD FINDING THE BEST AVAILABLE CONTROL TECHNOLOGIES

PERSONAL AUTHOR: CROSS, FRANK L., JR

DESCRIPTOR: *FEDERAL LEGISLATION; *WATER POLLUTION CONTROL; *AIR POLLUTION CONTROL; ENVIRONMENTAL CRITERIA; *STANDARDS; FACILITY REQUIREMENTS; INDUSTRY; *CLEAN WATER ACT; *EFFLUENT GUIDELINES; *EFFLUENTS

ABSTRACT: THIS ARTICLE DISCUSSES THE STANDARDS BEING DEVELOPED AS EMISSION AND DISCHARGE LIMITATION GUIDELINES FOR INDUSTRIES AS REQUIRED BY THE CLEAN AIR ACT AND THE CLEAN WATER ACT. EMPHASIS IS GIVEN TO DETERMINING THE BEST AVAILABLE CONTROL TECHNOLOGY(BACT).

AVAILABILITY: POLLUTION ENGINEERING; V11, N7, P30-33, JUL79

IRIS ACCESSION NUMBER: EW004062

PUBLICATION DATE: JUL 79

TITLE: MUTANT BACTERIA GIVES FAST STARTUP FOR NEW PROCESS.

PERSONAL AUTHOR: YOUNG, RICHARD A

DESCRIPTOR: *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; PUBLIC HEALTH; BIOCHEMISTRY; *BACTERIA; ENGINEERING; *OPERATIONS(WASTEWATER); FACILITIES

ABSTRACT: DISCUSSED IS THE USE OF MUTANT BACTERIA STRAINS IN AN IOWA WASTEWATER TREATMENT FACILITY TO BREAK DOWN AROMATICS, PHENOLS, HYDROCARBONS AND CYANIDES.

AVAILABILITY: POLLUTION ENGINEERING; V11, N7, P34-35, JUL 79

IRIS ACCESSION NUMBER: EW004063

PUBLICATION DATE: JUL 79

TITLE: STATIC SCREENS IMPROVE COSTS FOR SEAFOOD AND OTHER PLANTS.

PERSONAL AUTHOR: CHANEY, R.L

DESCRIPTOR: *WASTE DISPOSAL; *WATER POLLUTION CONTROL; EQUIPMENT; *FOOD PROCESSING; COST EFFECTIVENESS; RECYCLING; *INDUSTRIAL WASTES; *SEAFOODS; *SCREENING SYSTEMS

ABSTRACT: DISCUSSED IS THE USE OF SCREENING SYSTEMS REMOVING A LARGE PORTION OF SETTLEABLE AND SUSPENDED SOLIDS FROM THE WASTEWATER OF FOOD PROCESSING PLANTS. CONVERSION OF SOLID WASTES INTO A PROFITABLE BY-PRODUCT IS STRESSED.

AVAILABILITY: POLLUTION ENGINEERING; V11, N7, P42-43, JUL79

IRIS ACCESSION NUMBER: EW004065

PUBLICATION DATE: JUL 79

TITLE: IS ALUM SLUDGE ADVANTAGEOUS IN WASTEWATER TREATMENT?

PERSONAL AUTHOR: CULP, RUSSELL L.; WILSON, WILLIAM I

DESCRIPTOR: *ECOLOGICAL FACTORS; *ENVIRONMENT; *POLLUTION; *WASTE DISPOSAL; *WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *SLUDGE; *ALUM SLUDGE; *WATER TREATMENT

ABSTRACT: A STUDY WAS CONDUCTED TO DETERMINE THE BENEFICIAL AND ADVERSE EFFECTS OF DISCHARGING ALUM SLUDGE FROM A WATER CLARIFICATION PLANT TO AN ACTIVATED SLUDGE WASTEWATER TREATMENT PLANT. IT WAS CONCLUDED THAT THIS PRACTICE IS BENEFICIAL TO THE EFFICIENCY OF THE WASTEWATER TREATMENT PLANT.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16, N7, P16-19, JUL79

IRIS ACCESSION NUMBER: EW004066

PUBLICATION DATE: JUL 79

TITLE: JOIN FORCES WITH JOHN Q. PUBLIC.

PERSONAL AUTHOR: HEILMAN, C. BRUCE

DESCRIPTOR: *CITIZEN PARTICIPATION; ECOLOGICAL FACTORS; *ENVIRONMENT; NONFORMAL EDUCATION; *POLLUTION; WASTE DISPOSAL; *CONSTRUCTION; DESIGN; *WATER POLLUTION CONTROL; *PUBLIC PARTICIPATION; *WASTEWATER TREATMENT; FACILITIES; *PLANNING

ABSTRACT: PUBLIC INFORMATION AND PARTICIPATION CAN FACILITATE PUBLIC ACCEPTANCE OF PLANNING, DESIGN, AND CONSTRUCTION OF WASTEWATER TREATMENT FACILITIES. THE CHARACTERISTICS OF AN EFFECTIVE PUBLIC INVOLVEMENT PROGRAM INCLUDE OPENNESS, FAIRNESS, RESPONSIVENESS, AND ADVERSARY REDUCTION. PUBLIC PARTICIPATION PROGRAMS CAN BE IMPLEMENTED BY EMPLOYING BASIC IMPLEMENTATION CONCEPTS.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16, N7, P26-28, JUL79

IRIS ACCESSION NUMBER: EW004067

PUBLICATION DATE: JUL 79

TITLE: SPECIAL DESIGN CHANGES WITH THE SEASON.

PERSONAL AUTHOR: HOWARD, JEFFREY A

DESCRIPTOR: *ENGINEERING TECHNOLOGY; *ECOLOGICAL FACTORS; *ENVIRONMENT; *ENVIRONMENTAL CRITERIA; POLLUTION; *FACILITIES; *VACATION COMMUNITIES; *DESIGN; *WATER POLLUTION CONTROL; WASTE DISPOSAL; *WASTEWATER TREATMENT; SECONDARY TREATMENT; *SEASONAL CHANGE

ABSTRACT: THE SECONDARY WASTEWATER TREATMENT PLANT OF WESTPORT, WASHINGTON HAS BEEN DESIGNED TO ACCOMODATE SEASONAL POPULATION SURGES FROM VACATIONERS, BRINGING THE TOWNS POPULATION FROM ITS NORMAL 1,400 TO ABOUT 40,000 PEOPLE IN SUMMER. DESIGN HAS PROVED TO BE COST EFFECTIVE AND EFFICIENT.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16, N7, P38-40, JUL79

IRIS ACCESSION NUMBER: EW004068

PUBLICATION DATE: JUL 79

TITLE: REMOVE PHOSPHATE BIOLOGICALLY.

PERSONAL AUTHOR: CALDIERI, JOHN V

DESCRIPTOR: *BIOLOGY; *ECOLOGICAL FACTORS; NUTRIENT REMOVAL; *PHOSPHATES; *POLLUTION; WASTE DISPOSAL; *WATER POLLUTION CONTROL; *OPERATIONS(WASTEWATER); *WASTEWATER TREATMENT

ABSTRACT: AN ANAEROBIC/OXIC TREATMENT PROCESS BIOLOGICALLY REMOVES PHOSPHATE FROM WASTEWATER SIMULTANEOUSLY WITH BOD. THE PROCESS ACTS WITHOUT SPECIAL CHEMICAL TREATMENT AND CAN REDUCE OPERATING COSTS.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16, N7, P43-44, JUL79

IRIS ACCESSION NUMBER: EW004069

PUBLICATION DATE: JUL 79

TITLE: NPSH: BASIC TO GOOD PUMP APPLICATION.

PERSONAL AUTHOR: PALARZ, WILLIAM M.; SUTHAR, JAGDISH

DESCRIPTOR: *ENGINEERING; *WASTEWATER TREATMENT; *EQUIPMENT; *DESIGN; WATER POLLUTION CONTROL; *PUMPS; *OPERATIONS(WASTEWATER)

ABSTRACT: A WORKING KNOWLEDGE OF NET POSITIVE SUCTION HEAD (NPSH) IS NECESSARY FOR CORRECT APPLICATION OF PUMPS TO SEWAGE TREATMENT PROBLEMS. IN ANY PUMP INSTALLATION, AVAILABLE NPSH MUST ALWAYS EXCEED REQUIRED NPSH TO AVOID MECHANICAL PROBLEMS AND CAVITATION.

AVAILABILITY: WATER 8 WASTES ENGINEERING; V16, N7, P48-51, JUL79

IRIS ACCESSION NUMBER: EW004070

PUBLICATION DATE: JUL 79

TITLE: START-UP AND TRAINING FOR WASTEWATER PLANT--SEOUL, KOREA, STYLE.

PERSONAL AUTHOR: MCELROY, CHUCK

DESCRIPTOR: *WASTEWATER TREATMENT; EQUIPMENT; WATER POLLUTION CONTROL; *CONSTRUCTION; *FACILITY GUIDELINES; *OPERATIONS (WASTEWATER); *MANAGEMENT; EDUCATION; *KOREA; *FACILITY START-UP

ABSTRACT: REPORTED IS THE DESIGN, CONSTRUCTION, MANAGEMENT, AND START-UP ACTIVITIES FOR KOREA'S FIRST WASTEWATER TREATMENT FACILITY. JOB SITE TRAINING FOR OPERATORS AND ENGINEERS IS STRESSED.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P26-28, UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106.

IRIS ACCESSION NUMBER: EW004071

PUBLICATION DATE: JUL 79

TITLE: SAMPLING METHODOLOGIES FOR ASSESSING RURAL RUNOFF.

PERSONAL AUTHOR: HUMENIK, F.J.; AND OTHERS

DESCRIPTOR: *MEASUREMENT TECHNIQUES; *WATER POLLUTION CONTROL; *RUNOFF; SOILS; *RURAL AREAS; WATERSHEDS; *MONITORING

ABSTRACT: COMPARED ARE THE EFFECTIVENESS OF CONTINUOUS MONITORING VERSUS GRAB SAMPLING FOR ESTIMATING FLOW, CONCENTRATIONS, AND TRANSPORT OF RURAL RUNOFF IN SMALL WATERSHEDS.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P31-33, UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW004072

PUBLICATION DATE: JUL 79

TITLE: EAST BURLINGTON TACKLES WASTEWATERS WITH EQUALIZATION, POWDERED CARBON, 8 FILTRATION.

PERSONAL AUTHOR: ALLEY, L.A.; AND OTHERS

DESCRIPTOR: *WASTEWATER TREATMENT; *OPERATIONS (WASTEWATER); *FACILITY GUIDELINES; WATER POLLUTION CONTROL; TECHNOLOGY; ENGINEERING; *INDUSTRIALWASTES; *TEXTILE INDUSTRY; *FILTRATION; *POWDERED CARBON

ABSTRACT: DISCUSSED ARE THE MODIFICATIONS AT THE EAST BURLINGTON, N. CAROLINA, WASTEWATER TREATMENT PLANT TO MEET THE MANDATED PRODUCT WATER STANDARDS FOR THE DIFFICULT TO TREAT INFLUENTS OF TEXTILE PLANTS.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P34,43, UNIVERSITY MICROFILMS INC., 300 N. ZEEB., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW004073

PUBLICATION DATE: JUL 79

TITLE: FAIL-SAFE MECHANICAL SEALS FOR SEWAGE PUMPS.

PERSONAL AUTHOR: WEIS, FRANK G.

DESCRIPTOR: *EQUIPMENT STANDARDS; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; *PUMPS; HYDRAULICS; ENGINEERING; *PUMP SEALS

ABSTRACT: DISCUSSED ARE RECENT ADVANCEMENTS IN DOUBLE MECHANICAL SEAL DESIGNS WHICH HAVE PROVED EFFECTIVE IN PREVENTING LEAKAGE OF RAW SEWAGE IN WASTEWATER TREATMENT OPERATIONS.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P44-46, UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW004074

PUBLICATION DATE: JUL 79

TITLE: FIELD-SCALE EVALUATION FOR WASTEWATER DISINFECTION-

PART 1.

PERSONAL AUTHOR: RAKNESS, KERWIN L., HEGG, BOB A.

DESCRIPTOR: *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; OPERATIONS(WASTEWATER); FACILITY GUIDELINIES; EQUIPMENT; ENGINEERING; TECHNOLOGY; *DISNIFECTION; *OZONE

ABSTRACT: DISCUSSED IS THE DESIGN AND USE OF AN OZONE DISINFECTION PROCESS FOR WASTEWATER TREATMENT BY THE UPPER THOMPSON SANITATION DISTRICT, COLORADO. THIS SYSTEM WAS ONE OF THE FIRST FULL-SCALE OPERATIONS OF ITS KIND IN THE U.S.A.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P48-52, UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW004075

PUBLICATION DATE: JUL 79

TITLE: BASIN BOOSTED TO STANDARD WITH PROPER AERATORS.

PERSONAL AUTHOR: KINSELLA, DONALD A.

DESCRIPTOR: *WASTEWATER TREATMENT; WATER POLLUTION CONTROL; *OPERATIONS (WASTEWATER); *EQUIPMENT UTILIZATION; COST EFFECTIVENESS; ENGINEERING; *AERATION

DESCRIPTIVE NOTE: 53P.

ABSTRACT: DISCUSSED ARE THE CHANGES TAKEN BY THE CITY OF GENEVA, NEW YORK, TO UPGRADE ITS WASTEWATER TREATMENT PERFORMANCE BY MATCHING THE MIXING EQUIPMENT TO THE AERATION BASINS AT ITS WASTEWATER FACILITY.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P53, UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW004076

PUBLICATION DATE: JUL 79

TITLE: PROCESSES CONVERT SLUDGE TO ANIMAL FOOD-SOIL CONDITIONER.

PERSONAL AUTHOR: POON, CALVIN P.C.

DESCRIPTOR: *WASTE DISPOSAL; *WASTEWATER TREATMENT; *RECYCLING; OPERATIONS (WASTEWATER); ENERGY; MANAGEMENT; *SLUDGE; *WASTE DISPOSAL; FERTILIZER; LIVESTOCK FEED; AGRICULTURE

ABSTRACT: DISCUSSED ARE THE PROCESSING AND USE OF PRIMARY SLUDGE, ACTIVATED SLUDGE, AND COMPOSTED ORGANIC WASTES AS ANIMAL FEED AND FERTILIZER. CALCULATIONS ARE GIVEN FOR THE PROCESS WHICH UTILIZES THICKENING, ANAEROBIC DIGESTION, VACUUM FILTRATION AND HEAT-DRYING.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P54-56, UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW004077

PUBLICATION DATE: JUL 79

TITLE: FLOCCULANTS EASE COST, RAISE QUALITY OF WASTEWATER: PART 1.

PERSONAL AUTHOR: GILMAN KEVIN; AND OTHERS

DESCRIPTOR: *WATER QUALITY; *OPERATIONS (WASTEWATER); CHEMICAL REACTIONS; ENGINEERING; *COST EFFECTIVENESS; *FLOCCULANTS; *WASTEWATER TREATMENT

ABSTRACT: THIS ARTICLE DISCUSSES THE USE OF NATURAL AND SYNTHETIC FLOCCULANTS TO REDUCE OPERATIONAL COSTS AND INCREASE EFFLUENT QUALITY IN WASTEWATER TREATMENT FACILITIES.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P58-59, UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW004078

PUBLICATION DATE: JUL 79

TITLE: HEALTH DATA ON FLOURIDE GETS IN-DEPTH PROBING.

PERSONAL AUTHOR: STRASSBURG, MARC A.; GREENLAND, SANDER

DESCRIPTOR: *WATER SUPPLY; *PUBLIC HEALTH; *ENVIRONMENTAL INFLUENCES; HYGIENE; *RESEARCH METHODOLOGY; *FLUORIDATION; *CANCER; *FLUORIDES

ABSTRACT: THIS ARTICLE PRESENTS A CRITIQUE OF RECENT RESEARCH LINKING CANCER AND FLUORIDATION OF MUNICIPAL WATER SUPPLIES. THE AUTHORS CONCENTRATE ON FLAWS IN METHODOLGY AND THE USE OF STATISTICS TO QUESTION THE VALIDITY OF THE RESEARCH FINDINGS.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P60-62, UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW004079

PUBLICATION DATE: JUL 79

TITLE: LOOPED REACTORS RATE CONSIDERATION.

PERSONAL AUTHOR: BEER, CARL

DESCRIPTOR: WATER POLLUTION CONTROL; *WASTEWATER TREATMENT; OPERATIONS (WASTEWATER); EQUIPMENT; ENGINEERING; COST EFFECTIVENESS; *NITROGEN; *BIOGICAL TREATMENT

ABSTRACT: DISCUSSED IS THE USE OF MODERN LOOPED-REACTOR SYSTEMS TO REMOVE NITROGEN AND IMPROVE EFFLUENT QUALITY AT WASTEWATER TREATMENT FACILITIES.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P64-65, UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW004080

PUBLICATION DATE: JUL 79

TITLE: DON'T "DIG UP" TROUBLES WHEN BURYING FLEXIBLE PIPE.

PERSONAL AUTHOR: MOSER, A.P.

DESCRIPTOR: *CONSTRUCTION; *SOILS; *PIPES; UTILITIES; ENGINEERING; *WATER DISTRIBUTION; WATER SUPPLY; INSPECTION

ABSTRACT: THIS ARTICLE STRESSES THE NEED FOR SOIL-COMPACTION INSPECTIONS DURING THE INSTALLATION OF PIPE. EACH OF THE FIVE SOIL GROUPS ARE PRESENTED WITH RECOMMENDATIONS FOR INSTALLATION IN EACH.

AVAILABILITY: WATER 8 SEWAGE WORKS; V126 N7 P66-67, UNIVERSITY MICROFILMS INC., 300 N. ZEEB RD., ANN ARBOR, MI 48106

IRIS ACCESSION NUMBER: EW004081

PUBLICATION DATE: JUN 79

TITLE: A NEW METHOD FOR INSTALLING A LARGE-DIAMETER, CONTINUOUSLY WELDED STEEL SUBMARINE PIPELINE.

PERSONAL AUTHOR: GILLIS, D.A

DESCRIPTOR: *DISTRIBUTION SYSTEMS; *UTILITIES; *WATER SUPPLY; TECHNOLOGY; *CONSTRUCTION; EQUIPMENT; *OCEAN ENGINEERING; *PIPES; ECONOMICS; BRITISH COLUMBIA; *STEEL PIPES

ABSTRACT: DISCUSSED IS A CIRCULAR PROFILE METHOD USED TO INSTALL A NEW TRANSMISSION LINE ACROSS THE BURRARD INLET, VANCOUVER, BRITISH COLUMBIA. THE TEXT DESCRIBES THE STEP-BY-STEP PROCEDURE FOR AREA ASSESSMENT AND INSTALLATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N6, P295-300, JUN79

IRIS ACCESSION NUMBER: EW004082

PUBLICATION DATE: JUN 79

TITLE: STREAMLINING A TRANSMISSION MAIN CONSTRUCTION PROJECT.

PERSONAL AUTHOR: ENSOR, W. DOUGLAS; DOLECKI, ROBERT C

DESCRIPTOR: *DISTRIBUTION SYSTEMS; UTILITIES; ENGINEERING; *CONSTRUCTION; *WATER SUPPLY; *COST EFFECTIVENESS; *PIPES; *VIRGINIA

ABSTRACT: THIS ARTICLE REPORTS ON THE ECONOMICAL AND EFFICIENT COMPLETION OF A TRANSMISSION MAIN CONSTRUCTION PROJECT THROUGH THE COOPERATION OF CONTRACTORS, A PUBLIC WORKS DEPARTMENT, AND TRAFFIC DEPARTMENTS OF NEWPORT NEWS, VIRGINIA.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N6, P301-305, JUN79

IRIS ACCESSION NUMBER: EW004083

PUBLICATION DATE: JUN 79

TITLE: A NEW TRANSMISSION SYSTEM PROVIDES FOR AUTOMATIC SWITCHING TO ALTERNATE SUPPLY.

PERSONAL AUTHOR: ROLLER, JOHN; OLSON, KENNETH F

DESCRIPTOR: *WATER SUPPLY; UTILITIES; *AUTOMATION; TECHNOLOGY; *WATER QUALITY; *TURBIDITY; WATER RESOURCES; *WASHINGTON

ABSTRACT: THIS ARTICLE REPORTS ON THE AUTOMATIC TURBIDITY CONTROL OPERATION UTILIZED BY THE CITY OF TACOMA, WASHINGTON, TO PROVIDE QUALITY WATER EVEN WHEN THE SOURCE EXCEEDS ACCEPTABLE TURBIDITY LEVELS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N6, P306-309, JUN79

IRIS ACCESSION NUMBER: EW004084

PUBLICATION DATE: JUN 79

TITLE: BUILDING FOR THE FUTURE: A NEW GENERATION OF WATER TREATMENT PLANTS IN KANSAS.

PERSONAL AUTHOR: ROBINSON, JOHN H

DESCRIPTOR: *WATER TREATMENT; *OPERATIONS(WATER); ENGINEERING; *FACILITY GUIDELINES; *CONSTRUCTION; *UTILITIES; *MUNICIPALITIES; *FACILITIES; KANSAS

ABSTRACT: REPORTED ARE FOUR WATER TREATMENT FACILITIES IMPROVEMENT PROGRAMS CURRENTLY UNDERWAY IN KANSAS. THE PROJECTS ARE DESIGNED TO MEET THE INCREASED WATER REQUIREMENTS EXPECTED IN THE FUTURE. THE CITIES ARE: TOPEKA, LEAVENWORTH, JUNCTION CITY, AND LAWRENCE.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N6, P310-314, JUN79

IRIS ACCESSION NUMBER: EW004085
PUBLICATION DATE: JUN 79

TITLE: PACKAGE PLANTS: ONE SOLUTION TO SMALL COMMUNITY WATER SUPPLY NEEDS.

PERSONAL AUTHOR: HANSEN, SIGURD P

DESCRIPTOR: *WATER TREATMENT; *EQUIPMENT; *UTILITIES; MUNICIPALITIES; *COST EFFECTIVENESS; *OPERATIONS(WATER); *FACILITIES; PACKAGE PLANTS

ABSTRACT: DISCUSSED ARE WHAT PACKAGE WATER TREATMENT PLANTS OFFER AS AN ECONOMICAL MEANS FOR SMALL COMMUNITIES TO TREAT SURFACE WATER SUPPLIES TO CONFORM WITH UPGRADED WATER QUALTIY STANDARDS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N6, P315-323, JUN79

IRIS ACCESSION NUMBER: EW004086

PUBLICATION DATE: JUN 79

TITLE: AN IMPROVED POWDERED ACTIVATED CARBON FEED FACILITY.

PERSONAL AUTHOR: NIELSON, HUBERT L.; WHIPPLE, DELANO E

DESCRIPTOR: *WATER TREATMENT; *WATER QUALITY; *UTILITIES; OPERATIONS(WATER); *EQUIPMENT; *COST EFFECTIVENESS; *ACTIVATED CARBON

ABSTRACT: REPORTED IS THE INSTALLATION AND USE OF A NEW ACTIVATED CARBON FEED FACILITY TO PROVIDE EASIER HANDLING AND OPERATIONAL FLEXIBILITY FOR WATER TREATMENT FACILITIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N6, P324-327, JUN79

IRIS ACCESSION NUMBER: EW004087

PUBLICATION DATE: JUN 79

TITLE: FLEXIBLE MEMBRANE: AN ECONOMICAL RESERVOIR LINER AND COVER.

PERSONAL AUTHOR: BROWN, JAMES H

DESCRIPTOR: *WATER SUPPLY; *UTILITIES; *COST EFFECTIVENESS; *CONSTRUCTION; *FACILITIES; *RESERVOIRS; *RESERVOIR LININGS

ABSTRACT: DISCUSSED IS THE EFFECTIVENESS OF REINFORCED SYNTHETIC RUBBER MEMBRANES TO LINE AND COVER A DIKED EARTH STORAGE RESERVOIR. CONSTRUCTION METHODS AND COST COMPARISONS WITH ALTERNATIVES ARE PROVIDED.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N6, P328-331, JUN79

IRIS ACCESSION NUMBER: EW004088
PUBLICATION DATE: JUN 79

TITLE: DIRECT FILTRATION USING POLYELECTROLYTE COAGULANTS.

PERSONAL AUTHOR: LETTERMAN, RAYMOND D.; AND OTHERS

DESCRIPTOR: *HYDRAULICS; *WATER TREATMENT; OPERATIONS(WATER); UTILITIES; TECHNOLOGY; *COST EFFECTIVENESS; *FILTRATION; *COAGULATION; *CLARIFICATION

ABSTRACT: THIS ARTICLE REPORTS ON THE USE OF THE DIRECT FILTRATION PROCESS AS AN EFFECTIVE AND ECONOMICAL ALTERNATIVE TO CONVENTIONAL WATER CLARIFICATION. RAW WATER IS TREATED WITH A COAGULANT, AGITATED, AND FILTERED WITHOUT SEDIMENTATION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N6, P332-337, JUN79

IRIS ACCESSION NUMBER: EW004089

PUBLICATION DATE: JUN 79

TITLE: POLYELECTROLYTE SELECTION FOR DIRECT FILTRATION.

PERSONAL AUTHOR: STUMP, VERNON L.; NOVAK, JOHN T

DESCRIPTOR: *WATER TREATMENT; CHEMICAL REACTIONS; *OPERATIONS(WATER); *COST EFFECTIVENESS; *RESEARCH; *FILTRATION

ABSTRACT: THIS ARTICLE REPORTS ON A STUDY TO EVALUATE THE PERFORMANCE OF SEVERAL DIFFERENT COMMERCIAL POLYMERS IN DIRECT FILTRATION APPLICATIONS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N6, P338-342, JUN 79

IRIS ACCESSION NUMBER: EW004090

PUBLICATION DATE: JUN 79

TITLE: REMOVAL OF SULFATE BY ION EXCHANGE.

PERSONAL AUTHOR: JOHNSON, MICHAEL S.; MUSTERMAN, JOHN L

DESCRIPTOR: *CHEMICAL REACTIONS; *WATER TREATMENT; TECHNOLOGY RESEARCH; *OPERATIONS(WATER); *SULFATES; *ION EXCHANGE

ABSTRACT: THIS STUDY EXAMINES A PROCESS FOR TREATING HIGH SULFATE, HARD WATERS, WHERE THE SO4 IS REMOVED BY ION EXCHANGE AND THE HARDNESS REMOVED BY CHEMICAL ADDITION.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION JOURNAL; V71, N6, P343-348, JUN79

IRIS ACCESSION NUMBER: EW004091
PUBLICATION DATE: JUN 79

TITLE: ADVANCED TREATMENT PUTS EMPHASIS ON SLUDGE CONTROL.

PERSONAL AUTHOR: DEDYO, JOHN; CARUSCO, VITO J

DESCRIPTOR: *DENITRIFICATION; *MUNICIPAL WASTES; *NITRIFICATION; *OPERATIONS(WASTEWATER); PHOSPHORUS; *SLUDGE TREATMENT; *SLUDGE; WASTE DISPOSAL; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL

ABSTRACT: DESCRIBED IS A NEW WATER POLLUTION CONTROL FACILITY FOR THE TOWN OF AMHERST, NEW YORK. THIS NITRIFICATION- DENITRIFICATION PLANT USING PURE OXYGEN IS NOW ABOUT 50 PERCENT COMPLETE. FEATURES INCLUDE PHOSPHORUS REMOVAL USING LIME PRECIPITATION, MAKING RECALCINING COST-EFFECTIVE, AS WELL AS ORGANIC SLUDGE INCINERATION.

AVAILABILITY: PUBLIC WORKS; P76-78, JUN79

IRIS ACCESSION NUMBER: EW004092

PUBLICATION DATE: JUN 79

TITLE: THE N-YEAR FLOOD: WHAT DOES IT MEAN?

PERSONAL AUTHOR: TRUITT, M.M

DESCRIPTOR: *DESIGN; *DRAINAGE; *FLOOD PROTECTION; MUNICIPAL WATER; POST SECONDARY EDUCATION; *SEWERS; *STORM WATER; *SEWER DESIGN; STATISTICS; *TWENTY YEAR FLOODS

DESCRIPTIVE NOTE: 81P.

ABSTRACT: A DISCUSSION OF THE MATHEMATICS INVOLVED IN THE CALCULATION OF THE 20-YEAR FLOOD.

AVAILABILITY: PUBLIC WORKS; P81, JUN79

IRIS ACCESSION NUMBER: EW004093

PUBLICATION DATE: JUN 79

TITLE: WATER NETWORK SIMULATIONS SHOW SAVINGS FOR CITIES.

PERSONAL AUTHOR: HARRISON, CARTER

DESCRIPTOR: *COMPUTER APPLICATION; *COMPUTER PROGRAMS; DESIGN; *DISTRIBUTION SYSTEMS; *MODELS; RESERVOIRS; *SIMULATION; *WATER RESOURCES; *WATER DISTRIBUTION

ABSTRACT: A DISCUSSION OF THE USE OF COMPUTER SIMULATION IN THE DESIGN OF WATER DISTRIBUTION SYSTEMS. EXAMPLES OF THE USE OF A WATER SYSTEM SIMULATOR(WATSIM) PROGRAM ARE GIVEN.

AVAILABILITY: PUBLIC WORKS; P86-87, JUN79

IRIS ACCESSION NUMBER: EW004094
PUBLICATION DATE: JUN 79

TITLE: THE OPERATION OF WATER TREATMENT PLANTS. PART THREE.

PERSONAL AUTHOR: DUKES, LEE S

DESCRIPTOR: *CORROSION; DISTRIBUTION SYSTEMS; FLUORIDES; *ION; TIME; *MANGANESE; *OPERATIONS(WATER); PH; RECORD KEEPING; RECORDS; *SOFTENING; WATER QUALITY; *WATER TREATMENT

ABSTRACT: A DISCUSSION OF CORROSION CONTROL, IRON AND MANGANESE REMOVAL, AND WATER SOFTENING. THIS IS THE THIRD PART OF A SERIES ON THE OPERATION OF WATER TREATMENT PLANTS.

AVAILABILITY: PUBLIC WORKS; P92-99, JUN79

IRIS ACCESSION NUMBER: EW004095

PUBLICATION DATE: OCT 77

TITLE: FACILITIES AND OPERATING PROCEDURES FOR CHLORINE STORAGE. EDITION 3 REVISION 3. PAMPHLET 5.

DESCRIPTOR: *CHLORINE; *CHEMICAL REACTIONS; *CONSTRUCTION; DESIGN; EQUIPMENT; FACILITIES; *GUIDELINES; MAINTENANCE; *STANDARDS; *SAFETY

DESCRIPTIVE NOTE: 20P.

ABSTRACT: THIS PAMPHLET PROVIDES BASIC INFORMATION REGARDING THE DESIGN, CONSTRUCTION, LOCATION, INSTALLATION AND OPERATION OF CHLORINE STORAGE SYSTEMS.

AVAILABILITY: THE CHLORINE INSTITUTE, INC. 342 MADISON AVE NEW YORK, NY 10017 ($2.00)

INSTITUTION NAME: CHLORINE INSTITITUTE, INC.

IRIS ACCESSION NUMBER: EW004096

PUBLICATION DATE: JAN 79

TITLE: NORTH AMERICAN CHLOR-ALKALI INDUSTRY PLANTS AND PRODUCTION DATA BOOK. PAMPHLET 10

PERSONAL AUTHOR: CHLORINE INSTITUTE

DESCRIPTOR: *CHEMICAL INDUSTRY; *CHLORINE; *DIRECTORIES; *MANUFACTURERS; RESOURCE MATERIALS

DESCRIPTIVE NOTE: 18P.

ABSTRACT: THIS PAMPHLET PROVIDES A LISTING OF CHLORINE PRODUCERS AND PACKAGING PLANTS IN MEXICO, CANADA, AND THE UNITED STATES. DATA IS ALSO PROVIDED FOR CAPACITY, PRODUCTION, AND PRODUCTION ROUTES.

AVAILABILITY: THE CHLORINE INSTITUTE, 342 MADISON AVE, NEW YORK, NY 10017 ($2.00)

IRIS ACCESSION NUMBER: EW004097

PUBLICATION DATE: JUL 77

TITLE: MAINTENANCE INSTRUCTIONS FOR CHLORINE INSTITUTE STANDARD SAFETY VALVES, TYPE 1 1/2 JQ EDITION 7 PAMPHLET 39.

DESCRIPTOR: *ACCIDENT PREVENTION; CHEMICAL REACTIONS; *CHLORINE; DISTRIBUTION SYSTEMS; *EQUIPMENT; *GUIDELINES; *MAINTENANCE; *SAFETY; STANDARDS; *VALVES

DESCRIPTIVE NOTE: 28P.

ABSTRACT: THIS PAMPHLET CONTAINS RECOMMENDED MAINTENANCE PRACTICES APPLYING TO THE CHLORINE INSTITUTE STANDARD SAFETY VALVES. SOME INFORMATION IS ALSO INCLUDED ON OPENING THE MANWAY COVER ON WHICH THE VALVE IS MOUNTED.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVE., NEW YORK, NY 10017 ($2.00)

INSTITUTION NAME: CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW004098

PUBLICATION DATE: OCT 77

TITLE: MAINTENANCE INSTRUCTIONS FOR CHLORINE INSTITUTE STANDARD ANGLE VALVE. EDITION 3, REVISION 1. PAMPHLET 40.

DESCRIPTOR: *ACCIDENT PREVENTION; CHEMICAL REACTIONS; *CHLORINE; *EQUIPMENT; *GUIDELINES; *MAINTENANCE; *SAFETY; STANDARDS; *VALVES

DESCRIPTIVE NOTE: 22P.

ABSTRACT: THIS PAMPHLET CONTAINS RECOMMENDED MAINTENANCE PRACTICES APPLYING TO THE CHLORINE INSTITUTE STANDARD ANGLE VALVE.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVE., NEW YORK, NY 10017 ($2.00)

INSTITUTION NAME: CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW004099

PUBLICATION DATE: SEP 77

TITLE: DESIGN RECOMMENDATIONS FOR CHLORINE CARGO TANKS. EDITION 2, REVISION 1. PAMPHLET 59.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHLORINE; CHEMICAL REACTIONS; *CARGO TANKS; EQUIPMENT; *REGULATIONS; STANDARDS; *SAFETY; *TRANSPORTATION

DESCRIPTIVE NOTE: 18P.

ABSTRACT: THIS PAMPHLET PROVIDES INFORMATION RELATED TO THE DESIGN AND FABRICATION OF CARGO TANKS IN CHLORINE SERVICE CONFORMING TO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

AVAILABILITY: THE CHLORINE INSTITUTE, INC., 342 MADISON AVE., NEW YORK, NY 10017 ($2.00)

INSTITUTION NAME: CHLORINE INSTITUTE, INC.

IRIS ACCESSION NUMBER: EW004100

PUBLICATION DATE: 72

TITLE: NOMOGRAPHS FOR USE IN EVALUATING ACTIVATED SLUDGE WASTE TREATMENT PLANTS.

DESCRIPTOR: *BOD; *CALCULATIONS; ENVIRONMENTAL TECHNICIAN; ENGINEERING; EVALUATION; JOB SKILLS; *OPERATIONS (WASTEWATER); *ACTIVATED SLUDGE; SLUDGE; UTILITIES; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 4P.

ABSTRACT: THE NOMOGRAPHS PRESENTED IN THIS PAPER ARE DESIGNED TO AID THE OPERATOR IN CONVERSION OF INFLUENT BOD DATA TO A USEABLE FORM AND IN EVALUATION OF OPERATIONAL DATA TO MAINTAIN PEAK OPERATING CONDITIONS.

AVAILABILITY: EPA INFORMATION DISSEMINATION PROJECT, 1200 CHAMBERS RD., 2ND FLOOR, COLUMBUS, OHIO 43212 ($1.12)

INSTITUTION NAME: CAN TEX PROCESS EQUIPMENT DIVISION, P O BOX 340, MINERAL WELLS, TX 76067.

IRIS ACCESSION NUMBER: EW004102

PUBLICATION DATE: 79

TITLE: A GUIDE FOR THE OPERATING PERSONNEL IN THE SLUDGE DISPOSAL FACILITY AT THE CITY OF HOUSTON, NORTHSIDE TREATMENT PLANT.

DESCRIPTOR: EQUIPMENT; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *LABORATORY PROCEDURES; MUNICIPALITIES; *OPERATIONS (WASTEWATER); POST SECONDARY EDUCATION; *SLUDGE; *TECHNICIANS; *TEXAS; *UTILITIES; *WASTE DISPOSAL; WATER POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 54P.

ABSTRACT: THIS MANUAL CONTAINS THE TECHICAL TRAINING MATERIALS DEVELOPED AND UTILIZED BY THE WASTEWATER DIVISION, CITY OF HOUSTON, TEXAS. THE MATERIAL IS DESIGNED FOR CLASSROOM AND ON-SITE USE TO FAMILIARIZE OPERATORS WITH THE FACILITY AND THE USE OF THE CENTRIFUGE, SLUDGE THICKENER, AND TESTING PROCEDURES.

AVAILABILITY: EPA INFORMATION DISSEMINATION PROJECT, THE

OHIO STATE UNIVERSITY , 1200 CHAMBERS RD., 2ND FLOOR, COLUMBUS, OHIO 43212 ($1.00 PLUS 3^ PER PAGE)

INSTITUTION NAME: WASTEWATER DIVISION, CITY OF HOUSTON.

IRIS ACCESSION NUMBER: EW004103

PUBLICATION DATE: DEC 75

TITLE: NATIONAL INTERIM PRIMARY DRINKING WATER REGULATIONS.

DESCRIPTOR: BIOCHEMISTRY; CHEMICAL ANALYSIS; *FEDERAL REGULATIONS; MUNICIPALITIES; PUBLIC HEALTH; *STANDARDS; UTILITIES; *WATER SUPPLY; *WATER QUALITY

DESCRIPTIVE NOTE: 159P.

ABSTRACT: THIS DOCUMENT CONTAINS THE NATIONAL INTERINE PRIMARY DRINKING WATER REGULATIONS IN ACCORDANCE WITH THE PROVISIONS OF THE SAFE DRINKING WATER ACT. THE BACKGROUND MATERIAL ON WHICH THE VARIOUS MAXIMUM CONTAMINANT LEVELS WERE BASED IS ALSO INCLUDED IN THE APPENDICES.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402 ($2.30; STOCK NO. 055-000-00157-0)

INSTITUTION NAME: EPA OFFICE OF WATER SUPPLY WASHINGTON, DC.

IRIS ACCESSION NUMBER: EW004104

PUBLICATION DATE: 78

TITLE: CAREERS IN WATER POLLUTION CONTROL.

DESCRIPTOR: *CAREERS; *ENVIRONMENTAL TECHNICIANS; *EMPLOYMENT OPPORTUNITIES; ENGINEERING; JOBS; MANPOWER UTILIZATION; *OCCUPATIONAL INFORMATION;SCIENCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 8P.

ABSTRACT: THIS PAMPHLET PROVIDES INFORMATION ABOUT THE TYPES OF EMPLOYMENT AND POTENTIAL EMPLOYERS FOR INDIVIDUALS INTERESTED IN THE VARIOUS FACETS OF WATER POLLUTION CONTROL.

AVAILABILITY: WATER POLLUTION CONTROL FEDERATION, 2626 PENNSYLVANIA AVE.,NW, WASHINGTON, DC 20037 (FREE)

INSTITUTION NAME: WATER POLLUTION CONTROL FEDERATION.

IRIS ACCESSION NUMBER: EW004107

PUBLICATION DATE: AUG 76

TITLE: TROUBLESHOOTING O & M PROBLEMS IN WASTEWATER TREATMENT FACILITIES. INSTRUCTOR NOTEBOOK.

DESCRIPTOR: BEHAVIORAL OBJECTIVES; BIOLOGICAL TREATMENT; *ENVIRONMENTAL TECHNICIANS; EQUIPMENT; *INSTRUCTIONAL MATERIALS; JOB SKILLS; *MAINTENANCE; *OPERATIONS(WASTEWATER); *POST SECONDARY EDUCATION; SEDIMENTATION BASINS; SLUDGE; STAFFING; WASTE DISPOSAL; *WASTEWATER TREATMENT; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 672P.

ABSTRACT: THIS DOCUMENT CONTAINS THE INSTRUCTOR GUIDELINES FOR A COURSE ON OPERATION AND MAINTENANCE PROBLEMS IN WASTEWATER TREATMENT PLANTS. EACH LESSON PLAN MODULE CONTAINS: (1) A SET OF INSTRUCTIONS; (2) LESSON OUTLINE; VISUAL AIDS; (4) NOTEBOOK MATERIALS; (5) HANDOUTS; AND (6) GUIDELINES ON THE APPROACH TO THE LESSON. FOR EACH LESSON THE INSTRUCTOR IS PROVIDED WITH A SET OF BEHAVIORAL OBJECTIVES, PRESENTATION OPTIONS, AND SUGGESTED TEST QUESTIONS. LESSON TOPICS INCLUDE: (1) SCREENING AND COMMINUTION; (2) SEDIMENTATION BASINS; (3) BIOLOGICAL TREATMENT UNITS; (4) SLUDGE CONDITIONING, DEWATERING, AND DISPOSAL; (5) EQUIPMENT; AND (6) STAFFING.

AVAILABILITY: NATIONAL TECHNICAL INFORMATION SYSTEM, 5285 PORT ROYAL RD., SPRINGFIELD, VA 22161 ($19.00)

INSTITUTION NAME: AMERICAN PUBLIC WORKS ASSOCIATION.

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*ENVIRONMENTAL TECHNICIANS (5) EW003180 EW003185 EW003947 EW004104 EW004107

*EQUILIBRIUM (2) EW002120 EW002121

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EQUIPMENT GUARDS (1) EW002824

*EQUIPMENT STANDARDS (10) EW003935 EW003937 EW003938 EW003943 EW004010 EW004011 EW004012
EW004013 EW004022 EW004073

EQUIPMENT STANDARDS (1) EW004042

*EQUIPMENT UTILIZATION (6) EW002824 EW003183 EW003991 EW004020 EW004031 EW004075

EQUIPMENT UTILIZATION (2) EW002864 EW004024

EROSION (1) EW002713

*ESTUARIES (1) EW002363
*EUTROPHICATION (4) EW001427 EW001909 EW001927 EW001942

EUTROPHICATION (2) EW000482 EW000955

*EVALUATION (2) EW003984 EW004037

EVALUATION (2) EW001694 EW004100

EVALUATION METHODS (1) EW004036

*EXPANSION VALVES (2) EW002287 EW002288

*EXPLOSIONS (1) EW002463

*EXPONENTIAL NOTATION (1) EW002095

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*FACILITY GUIDELINES (6) EW003984 EW004015 EW004022 EW004070 EW004072 EW004084

FACILITY GUIDELINES (4) EW003988 EW003990 EW003995 EW004039

FACILITY REQUIREMENTS (1) EW004061

*FACILITY START-UP (1) EW004070

*FEDERAL LEGISLATION (1) EW004061

FEDERAL LEGISLATION (1) EW004029

*FEDERAL REGULATIONS (1) EW004103

*FEDERAL ROLE (2) EW001676 EW001678

FERRIC SULFATE (1) EW004014

FERTILIZER (1) EW004076

FIELD STUDIES (1) EW002399

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EW002722

*FILTRATION (12) EW000735 EW000927 EW001131 EW001133 EW001135 EW002157 EW002426
EW003183 EW004027 EW004072 EW004088 EW004089

FILTRATION (2) EW001019 EW002546

*FINANCES (1) EW003207

FINANCES (1) EW004035

*FIRE PROTECTION (5) EW002463 EW002496 EW002497 EW002511 EW002515

*FIRES (2) EW001123 EW001125

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*FLOCCULATION (2) EW001960 EW003942

*FLOOD CONTROL (1) EW002537

FLOOD CONTROL (1) EW002162

*FLOOD PROTECTION (1) EW004092

*FLOODS (3) EW000595 EW002352 EW002766

FLOODS (2) EW000559 EW002713

*FLOW MEASUREMENT (4) EW001940 EW002459 EW002752 EW003933

FLOW MEASUREMENT (5) EW000559 EW000881 EW001269 EW002160 EW004017

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*FLOW MONITORING (1) EW003951

*FLUID FLOW (1) EW003909

*FLUID MECHANICS (1) EW002364

*FLUORIDATION (1) EW004078

*FLUORIDES (1) EW004078
FLUORIDES (2) EW001915 EW004094
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*FOODS (1) EW001444
*FORECASTING (1) EW002766
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*GENERATORS (2) EW002505 EW002506
*GEOCHEMISTRY (1) EW001941
GEOLOGY (4) EW000179 EW000497 EW003204 EW003205
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*GLASSWARE (1) EW002153
*GLOSSARIES (1) EW000479
*GOVERNMENT PUBLICATIONS (2) EW003204 EW003205
*GOVERNMENT ROLE (2) EW002163 EW002422
GOVERNMENT ROLE (1) EW002162
*GRAPHS (3) EW002103 EW002104 EW002154
*GRAVIMETRIC ANALYSIS (1) EW002108
*GRAVITY (1) EW003991
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*HARD HATS (1) EW000937
*HARDNESS (1) EW001075

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*HEAT EXHAUSTION (1) EW002482
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*HEAT STROKE (1) EW002482
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HERBICIDES (1) EW001431
*HIGHER EDUCATION (1) EW001246
*HISTORY (1) EW000774
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*HUMUS (1) EW001911
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HYDROGEN SULFIDE (1) EW003985
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*HYDROLYSIS (1) EW002123
HYGIENE (1) EW004078
*IDENTIFICATION (1) EW001978
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*IMPACT STATEMENTS (1) EW002937
*INCINERATION (1) EW002494
*INDIVIDUALIZED INSTRUCTION (25) EW001352 EW001353 EW001354 EW001355 EW001356 EW001357 EW001358
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*INDUSTRIAL DRAWING	(1)	EW002528
*INDUSTRIAL HEALTH	(2)	EW002293 EW002495
*INDUSTRIAL SAFETY	(1)	EW002513
*INDUSTRIAL TECHNOLOGY	(1)	EW001918
*INDUSTRIAL WASTES	(14)	EW000881 EW001671 EW001813 EW001913 EW001915 EW001918 EW001928 EW001930 EW002228 EW002446 EW002574 EW004018 EW004021 EW004063
INDUSTRIAL WASTES	(4)	EW000864 EW002250 EW002494 EW004017
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*INSECTICIDES	(1)	EW004030
INSECTICIDES	(1)	EW002366
*INSERVICE EDUCATION	(2)	EW003279 EW003280
*INSERVICE PROGRAMS	(1)	EW004021
*INSPECTION	(3)	EW002608 EW003950 EW004021
INSPECTION	(3)	EW000572 EW002496 EW004080
*INSTALLATION	(2)	EW002294 EW004012
INSTALLATION	(1)	EW004011
*INSTRUCTION	(11)	EW000703 EW001369 EW001803 EW002543 EW002543 EW002557 EW002746 EW002747 EW002749 EW002751 EW002755
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IRRICATION	(1)	EW002432
*JOB ANALYSIS	(2)	EW001392 EW002332
JOBS	(1)	EW004104
*JOB SAFETY	(2)	EW002529 EW002532
*JOB SKILLS	(11)	EW000594 EW001803 EW002557 EW002738 EW002742 EW002743 EW003180 EW003557 EW004021 EW004031 EW004041
JOB SKILLS	(11)	EW002744 EW002824 EW002864 EW003183 EW003184 EW003185 EW003984 EW004020 EW004100 EW004102 EW004107
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KANSAS	(1)	EW004084
*KOREA	(1)	EW004070
*LABORATORY ANALYSES	(2)	EW001239 EW001240
*LABORATORY EQUIPMENT	(13)	EW000850 EW000930 EW000933 EW001139 EW001141 EW001143 EW001145 EW002105 EW002106 EW002110 EW002111 EW002153 EW002302
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LABORATORY TECHNIQUES (3) EW000863 EW001075 EW001078

*LABORATROY SKILLS (1) EW001137

*LABORATROY TECHNIQUES (1) EW002107

*LAGOONS (1) EW002159

*LAKE ERIE (1) EW000183

*LAKES (8) EW000183 EW001436 EW001909 EW001912 EW001927 EW001978 EW002262
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LAKES (3) EW000482 EW000955 EW002764

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*LAND TREATMENT (1) EW002414

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LAWS (4) EW001082 EW001926 EW002366 EW002751

*LEACHATE (1) EW001960

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LEGISLATION (3) EW001404 EW002028 EW002422

*LIFELINES (1) EW002484

LIFT STATIONS (1) EW000572

*LIMNOLOGY (6) EW000482 EW001436 EW002262 EW002399 EW002400 EW002612

*LINEAR EQUATIONS (1) EW002101

*LIQUIDS (1) EW001137

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*LOGARITHMS (2) EW002099 EW002100

*LOS ANGELES (1) EW004021

*LUBRICATION (5) EW002348 EW002349 EW002350 EW002499 EW002526

*MACHINERY (1) EW002294

*MACHINE SHOPS (1) EW001991

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*MANGANESE (1) EW004094

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MANPOWER UTILIZATION (1) EW004104

*MANUAL LABOR (2) EW002308 EW002513

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MARINE BIOLOGY	(1)	EW002771
*MARINE POLLUTION	(4)	EW001813 EW002251 EW002252 EW002410
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*MARINE POLLUTION CONTROL	(1)	EW002727
*MASS	(1)	EW002113
*MATERIALS HANDLING	(1)	EW002824
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MATHEMATICS	(2)	EW003180 EW003280
*MEASUREMENT	(13)	EW001014 EW001137 EW001147 EW001355 EW001358 EW001359 EW002107 EW002110 EW002112 EW002113 EW002114 EW002115 EW002771
MEASUREMENT	(4)	EW000863 EW001145 EW002459 EW004017
*MEASUREMENT TECHNIQUES	(4)	EW001755 EW001756 EW001799 EW004071
MEASUREMENT TECHNIQUES	(1)	EW003278
*MECHANICAL EQUIPMENT	(1)	EW002824
MECHANICAL EQUIPMENT	(2)	EW004010 EW004011
*MECHANICS	(17)	EW002303 EW002304 EW002305 EW002306 EW002331 EW002335 EW002336 EW002337 EW002343 EW002344 EW002345 EW002346 EW002347 EW002349 EW002350 EW002351 EW002464
MECHANICS	(1)	EW002348
*MEDICAL EDUCATION	(1)	EW002307
*MEETINGS	(1)	EW004036
*MEMBRANE FILTRATION	(1)	EW003941
*MERCURY	(1)	EW002590
MERCURY	(2)	EW001755 EW002265
*METALS	(11)	EW001015 EW001028 EW001428 EW001429 EW001915 EW002172 EW002265 EW002557 EW002590 EW003939 EW003949
METALS	(5)	EW001019 EW001079 EW001431 EW001755 EW002250

*METAL WORK	(1)	EW002557
*METEOROLOGY	(2)	EW002545 EW002547
*METRIC SYSTEM	(3)	EW002112 EW002113 EW002114
METRIC SYSTEM	(1)	EW002459
*MEXICO	(1)	EW002432
*MICROBIOLOGY	(9)	EW000877 EW000955 EW001434 EW001435 EW001911 EW002025 EW002228 EW002539 EW002540
MICROBIOLOGY	(1)	EW002252
*MICROSCOPES	(1)	EW001357
*MINING	(1)	EW002542
MINING	(1)	EW002330
*MISSISSIPPI RIVER	(1)	EW002537
*MODELS	(9)	EW001908 EW001912 EW001933 EW001934 EW002393 EW002432 EW002764 EW002765 EW004093
*MOLAR SOLUTIONS	(1)	EW002126
*MOLE CONCEPT	(1)	EW002117
*MONITORING	(13)	EW000169 EW000863 EW000955 EW000956 EW001014 EW001694 EW001755 EW001756 EW001928 EW002771 EW003982 EW004019 EW004071
MONITORING	(2)	EW001799 EW001908
*MOTORS	(9)	EW002294 EW002338 EW002339 EW002351 EW002505 EW002506 EW003935 EW003936 EW003952
MULTIPLICATION	(2)	EW002096 EW002516
*MUNICIPALITIES	(5)	EW003207 EW003986 EW003988 EW004035 EW004084
MUNICIPALITIES	(8)	EW002770 EW003981 EW003989 EW003990 EW004023 EW004085 EW004102 EW004103
*MUNICIPAL WASTES	(3)	EW000987 EW002228 EW004091
MUNICIPAL WASTES	(1)	EW002249
MUNICIPAL WATER	(1)	EW004092
*NATIONAL ENVIRONMENTAL POLICY ACT	(1)	EW002027
*NATURAL RESOURCES	(11)	EW000570 EW000580 EW000775 EW002163 EW002166 EW002182 EW002276 EW002393 EW002432 EW003204 EW003278
NATURAL RESOURCES	(12)	EW000497 EW001007 EW001031 EW001431 EW001440 EW001442 EW001930 EW001943 EW002263 EW002363 EW003205 EW003207
NITRATES	(1)	EW000480
*NITRIFICATION	(1)	EW004091
*NITROGEN	(2)	EW001927 EW004079

*NOISE POLLUTION (4) EW001931 EW001933 EW002422 EW002503
NOISE POLLUTION (1) EW001928

NONFORMAL EDUCATION (1) EW004066

*NORMAL SOLUTIONS (1) EW002126

*NORTH AMERICA (1) EW002433

*NORTH CAROLINA (1) EW002395

NUCLEAR CHEMISTRY (1) EW003475

NUCLEAR REACTORS (1) EW002763

*NUMBER CONCEPTS (1) EW002516

NUTRIENT REMOVAL (1) EW004068

*NUTRIENTS (3) EW001909 EW001927 EW001942

NUTRIENTS (1) EW001912

*OCCUPATIONAL INFORMATION (2) EW003947 EW004104

*OCEAN ENGINEERING (1) EW004081

*OCEANOLOGY (11) EW001813 EW002172 EW002251 EW002252 EW002340 EW002363 EW002410
EW002727 EW002763 EW002771 EW003971

OCEANOLOGY (3) EW001442 EW002364 EW004032

*OCEAN OUTFALLS (1) EW002252

*ODOR (3) EW000481 EW001078 EW003945

ODOR (1) EW001513

*OIL SPILLS (2) EW000173 EW000568

OIL SPILLS (1) EW002727

OPERATING COSTS (1) EW003988

OPERATING EXPENSES (1) EW003207

*OPERATIONS (2) EW004010 EW004017

*OPERATIONS (WASTEWATER) (42) EW000461 EW000535 EW000537 EW000560 EW000563 EW000571 EW000590
EW000592 EW000696 EW000697 EW000699 EW001263 EW001369 EW001392 EW001672
EW001675 EW001803 EW002167 EW002228 EW002249 EW002253 EW002718 EW002719
EW002720 EW002722 EW003557 EW003943 EW003970 EW003980 EW003981 EW003982
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EW004077 EW004100 EW004102

*OPERATIONS(WASTEWATER) (23) EW000454 EW001011 EW001319 EW001400 EW001401 EW002026 EW002164
EW003937 EW003938 EW003948 EW003991 EW003992 EW004015 EW004018 EW004023
EW004024 EW004033 EW004042 EW004062 EW004068 EW004069 EW004091 EW004107

OPERATIONS (WASTEWATER) (5) EW000448 EW000536 EW000572 EW004076 EW004079
OPERATIONS(WASTEWATER) (7) EW002434 EW002612 EW003939 EW003940 EW004014 EW004028 EW004074

*OPERATIONS (WATER) (21) EW000495 EW000498 EW000499 EW000696 EW000697 EW000735 EW001009
EW001010 EW001265 EW001266 EW001268 EW001269 EW001656 EW001672 EW001673
EW001675 EW002070 EW002073 EW002392 EW002426 EW002722

*OPERATIONS(WATER) (16) EW000504 EW001011 EW003180 EW003183 EW003184 EW003185 EW003941
EW004014 EW004016 EW004027 EW004040 EW004084 EW004085 EW004089 EW004090
EW004094

OPERATIONS (WATER) (2) EW000448 EW001241

OPERATIONS(WATER) (5) EW003939 EW003949 EW004025 EW004086 EW004088

*ORGANIC CHEMICALS (1) EW003475

*ORGANIC CHEMISTRY (1) EW002649

ORGANIC CHEMISTRY (1) EW002366

ORGANIC COMPOUNDS (1) EW001028

*ORGANIC POLLUTANTS (1) EW001018

*ORGANIC POLLUTION (1) EW000877

*OSHA (1) EW001030

OSHA (1) EW002864

*OUTFALL CONSTRUCTION (1) EW003971

*OXYGEN (2) EW002164 EW002719

OXYGEN (3) EW000481 EW000482 EW004024

*OYSTERS (1) EW001442

*OZONE (4) EW002438 EW002720 EW003946 EW004074

OZONE (1) EW001787

PACKAGE PLANTS (1) EW004085

*PACKAGE TREATMENT PLANTS (1) EW003557

PATENTS (1) EW002438

PATHOGENS (1) EW000955

PERIODICALS (1) EW002438

*PERMITS (1) EW004021

*PERSONNEL (1) EW001392

PERSONNEL (3) EW003984 EW003989 EW003990

*PESTICIDES	(5)	EW002366 EW002530 EW002771 EW003475 EW004030
PESTICIDES	(4)	EW001018 EW001431 EW001445 EW002422
PETROLEUM	(1)	EW003475
PETROLEUM INDUSTRY	(1)	EW000173
*PH	(9)	EW001076 EW001079 EW001080 EW001512 EW001513 EW002110 EW002121 EW002122 EW002156
PH	(4)	EW000481 EW001787 EW001915 EW004094
PHENOLS	(1)	EW001915
*PH METERS	(1)	EW002156
*PHOSPHATES	(2)	EW002311 EW004068
PHOSPHATES	(2)	EW000480 EW000482
*PHOSPHORUS	(4)	EW001427 EW001927 EW002718 EW003940
PHOSPHORUS	(1)	EW004091
*PHYSICAL ENVIRONMENT	(2)	EW002363 EW002364
PHYSICAL SCIENCES	(1)	EW002104
*PHYSICAL TREATMENT	(1)	EW002161
*PHYSICS	(1)	EW002439
PHYSICS	(2)	EW002364 EW003909
PHYSIOLOGY	(1)	EW002366
*PIPES	(18)	EW000501 EW000860 EW000987 EW001940 EW002094 EW002326 EW002333 EW002722 EW003909 EW003932 EW003933 EW003934 EW004012 EW004020 EW004025 EW004080 EW004081 EW004082
PIPES	(1)	EW003981
*PIPETTES	(7)	EW001139 EW001141 EW001143 EW001354 EW002106 EW002152 EW002534
PLANKTON	(2)	EW001909 EW001912
*PLANNING	(22)	EW000564 EW000565 EW000594 EW000875 EW001031 EW001678 EW001943 EW002026 EW002028 EW002033 EW002045 EW002163 EW002166 EW002172 EW002395 EW002412 EW002608 EW002649 EW002713 EW002770 EW002877 EW004066
PLANNING	(2)	EW001404 EW001930
*PLANT CONSTRUCTION	(1)	EW002341
PLANTS	(1)	EW000955
*PLIERS	(1)	EW002525
*PLUMBING	(4)	EW002288 EW002289 EW002290 EW002743

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 PLUMBING                     (1)     EW002287
*POH                          (1)     EW002122

*POLICIES                     (4)     EW000564  EW000570  EW001943  EW002770

*POLICY FORMATION             (1)     EW001678

*POLLUTANTS                   (6)     EW001018  EW001444  EW001755  EW002265  EW002293  EW003987

 POLLUTANTS                   (2)     EW001918  EW003475

*POLLUTION                    (45)    EW000169  EW000170  EW000173  EW000177  EW000480  EW000481  EW000482
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                              EW002385  EW002391  EW002410  EW002443  EW002444  EW002574  EW002590  EW002612
                              EW002771  EW003475  EW004029  EW004065  EW004066  EW004068

 POLLUTION                    (29)    EW000183  EW000184  EW000595  EW000877  EW000895  EW001007  EW001082
                              EW001429  EW001799  EW001813  EW001933  EW001934  EW001978  EW002045  EW002265
                              EW002412  EW002422  EW002503  EW002727  EW003183  EW003204  EW003205  EW003284
                              EW003995  EW004017  EW004018  EW004036  EW004037  EW004067

*POLLUTION CONTROL            (6)     EW000568  EW001407  EW001929  EW002045  EW002385  EW002727

 POLLUTION CONTROL            (1)     EW001671


*POLYELECTROLYTES             (1)     EW001265

*PONDS                        (2)     EW001978  EW002167

*POPULATION GROWTH            (1)     EW002182

 POPULATION GROWTH            (1)     EW000580


*POST SECONDARY EDUCATION     (77)    EW000461  EW000464  EW000481  EW000482  EW000788  EW000845  EW000850
                              EW000864  EW000895  EW001007  EW001028  EW001037  EW001320  EW001426  EW001427
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                              EW003180  EW003183  EW003184  EW003185  EW003278  EW004107


 POST SECONDARY EDUCATION     (133)   EW000169  EW000173  EW000480  EW000495  EW000497  EW000498  EW000499
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		EW002313	EW002318	EW002319	EW002320	EW002325	EW002326	EW002328	EW002332
		EW002392	EW002412	EW002434	EW002443	EW002459	EW002488	EW002520	EW002529
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		EW002612	EW002722	EW002864	EW003475	EW004092	EW004102		
*POWDERED CARBON	(1)		EW004072						
*POWER GENERATION	(1)		EW002937						
*PRECISION	(1)		EW002098						
*PRESSURE	(1)		EW002752						
*PRESSURIZED SEWERS	(1)		EW003934						
*PRETREATMENT	(2)		EW000454	EW003987					
PRETREATMENT	(1)		EW003557						
PRIMARY TREATMENT	(1)		EW000535						
PROBLEM SOLVING	(1)		EW003279						
*PROCESS CONTROLS	(1)		EW001319						
*PROFESSIONAL SERVICES	(1)		EW003994						
*PROGRAM DESCRIPTIONS	(1)		EW001676						
*PROGRAM DEVELOPMENT	(1)		EW001246						
*PROGRAM EVALUATION	(1)		EW002412						
*PROGRAM PLANNING	(1)		EW002517						
*PROTECTIVE CLOTHING	(1)		EW000937						
*PROTECTIVE EQUIPMENT	(1)		EW000937						
*PUBLIC EDUCATION	(2)		EW002177	EW002178					
PUBLIC EDUCATION	(4)		EW000173	EW000177	EW000578	EW002531			
*PUBLIC HEALTH	(7)		EW000987	EW002265	EW002352	EW003985	EW004029	EW004030	EW004078
PUBLIC HEALTH	(23)		EW000563	EW001444	EW001787	EW003180	EW003281	EW003284	EW003944
		EW003945	EW003948	EW003980	EW003987	EW003995	EW004012	EW004013	EW004014
		EW004019	EW004032	EW004034	EW004035	EW004040	EW004041	EW004062	EW004103
*PUBLIC PARTICIPATION	(4)		EW000177	EW001031	EW001082	EW004066			
PUBLIC PARTICIPATION	(1)		EW001943						
*PUBLIC POLICY	(3)		EW002444	EW004036	EW004037				
*PUBLIC RELATIONS	(1)		EW004021						
*PUBLIC SPEAKING	(1)		EW001016						
*PUBLIC WORKS	(2)		EW000453	EW000591					

*PUBLIC WORKS ADMINISTRATION (1) EW001246
*PUBLIC WORKS MANAGEMENT (1) EW000594
*PUMPS (8) EW000860 EW001937 EW003950 EW003951 EW003952 EW004010 EW004069
EW004073
PUMPS (2) EW001269 EW003992
*PUMP SEALS (1) EW004073
*PUNCHES (1) EW002301
*QUADRATIC EQUATIONS (1) EW002102
*RADIOACTIVE WASTES (1) EW000480
*RADIOACTIVITY (3) EW001910 EW002228 EW002763
*RATES (1) EW001268
*REAGENT BOTTLES (1) EW000930
RECORD KEEPING (2) EW000571 EW004094
RECORDS (2) EW000454 EW004094
RECREATION (1) EW002770
*RECYCLING (15) EW001011 EW001267 EW001926 EW001928 EW001930 EW001960 EW002078
EW002161 EW002166 EW002182 EW003946 EW003986 EW003993 EW004034 EW004076
RECYCLING (5) EW000580 EW001670 EW004032 EW004033 EW004063
*REFERENCE MATERIALS (2) EW001675 EW002877
*REFRIGERATION (2) EW002288 EW002322
*REGIONAL DEVELOPMENT (1) EW000565
*REGIONAL PLANNING (1) EW002770
*REGULATIONS (19) EW001030 EW001082 EW001107 EW001676 EW001678 EW001930 EW001943
EW002045 EW002073 EW002162 EW002163 EW002385 EW002422 EW002434 EW002444
EW002727 EW002769 EW003987 EW004099
REGULATIONS (5) EW001404 EW001813 EW001926 EW002177 EW002751
REMOTE SENSING (1) EW001755
REPRODUCTION (BIOLOGY) (1) EW002366
*RESEARCH (12) EW001019 EW001694 EW002172 EW002366 EW003204 EW003979 EW003980
EW003990 EW004024 EW004033 EW004034 EW004089
RESEARCH (7) EW001756 EW001799 EW001813 EW002438 EW003909 EW003940 EW003986
*RESEARCH METHODOLOGY (2) EW002649 EW004078
RESEARCH METHODOLOGY (1) EW002399
*RESEARCH REVIEWS (2) EW001694 EW001756
*RESERVOIR LININGS (1) EW004087

*RESERVOIRS (1) EW004087
RESERVOIRS (2) EW002432 EW004093

RESOURCE DEVELOPMENT (2) EW001031 EW001933

*RESOURCE GUIDES (1) EW003994

RESOURCE MATERIALS (1) EW004096

*RESUSCITATION (1) EW002488

*REVERSE OSMOSIS (1) EW003948

*RIVERS (7) EW000184 EW001912 EW002433 EW002443 EW002537 EW002763 EW002766

RIVERS (3) EW000170 EW002033 EW002764

*ROTATING BIOLOGICAL CONTACTORS (1) EW003938

*RUNOFF (1) EW004071

*RURAL AREAS (1) EW004071

*SAFE DRINKING WATER ACT (1) EW002177

*SAFETY (62) EW000931 EW000936 EW000937 EW001123 EW001125 EW001127 EW001129 EW002293 EW002298 EW002308 EW002323 EW002325 EW002326 EW002328 EW002330 EW002352 EW002391 EW002463 EW002469 EW002470 EW002471 EW002472 EW002473 EW002474 EW002475 EW002476 EW002477 EW002478 EW002485 EW002486 EW002488 EW002495 EW002496 EW002497 EW002500 EW002501 EW002504 EW002511 EW002513 EW002514 EW002515 EW002521 EW002529 EW002530 EW002531 EW002532 EW002533 EW002534 EW002535 EW002542 EW002608 EW002751 EW002824 EW002864 EW004019 EW004020 EW004039 EW004041 EW004095 EW004097 EW004098 EW004099

SAFETY (8) EW000454 EW000461 EW000560 EW000571 EW000572 EW002525 EW003180 EW004021

SALINITY (1) EW001079

*SALTS (1) EW002123

*SAMPLING (8) EW000863 EW000956 EW001015 EW001018 EW001429 EW001755 EW001756 EW001909

SAMPLING (8) EW000454 EW000560 EW000571 EW000875 EW001799 EW001908 EW001912 EW002073

*SAND FILTRATION (1) EW002426

*SANITATION (2) EW001037 EW001319

SANITATION (4) EW003557 EW003944 EW003945 EW004021

*SAWING (1) EW002316

SCIENCE EDUCATION (4) EW000863 EW000864 EW000925 EW001014

*SCIENCE EQUIPMENT (8) EW000926 EW000933 EW001353 EW001356 EW001357 EW002105 EW002106 EW002153

SCIENCE EQUIPMENT (2) EW000928 EW000930
SCIENCES (2) EW002363 EW003909
*SCREENING (1) EW004027
*SCREENING SYSTEMS (1) EW004063
*SEAFOODS (1) EW004063
*SEASONAL CHANGE (1) EW004067
*SEAWATER (1) EW002172
*SECONDARY TREATMENT (2) EW000454 EW000592
SECONDARY TREATMENT (2) EW000535 EW004067
SEDIMENT (1) EW000559
*SEDIMENTATION (2) EW001010 EW003942
SEDIMENTATION (1) EW003991
SEDIMENTATION BASINS (1) EW004107
*SEDIMENTS (2) EW001911 EW002363
SEDIMENTS (1) EW001912
*SEMINARS (1) EW001266
SEMINARS (3) EW001265 EW001267 EW002070
*SEPTIC PONDS (1) EW003985
*SEPTIC TANKS (1) EW002296
*SERIAL DILUTIONS (1) EW001352
*SEWAGE (2) EW002249 EW002252
SEWAGE (2) EW000571 EW002718
*SEWER DESIGN (1) EW004092
*SEWER LININGS (1) EW003932
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EW003934 EW003981 EW003988 EW004012 EW004092
SEWERS (4) EW000536 EW000572 EW003932 EW003992
*SHOP (4) EW002314 EW002315 EW002316 EW002533
SHOP (1) EW002317
*SIGNIFICANT FIGURES (1) EW002097
SILICA (1) EW004014
*SIMULATION (1) EW004093
*SIMULTANEOUS EQUATIONS (1) EW002101

*SLIDES (2) EW000850 EW001402
*SLUDGE (20) EW000454 EW000560 EW001267 EW001402 EW001426 EW001813 EW001960 EW002164 EW002249 EW002719 EW003970 EW003986 EW004015 EW004024 EW004032 EW004033 EW004065 EW004076 EW004091 EW004102

SLUDGE (6) EW000881 EW001926 EW002161 EW003557 EW004100 EW004107

*SLUDGE CHARACTERISTICS (1) EW001267

*SLUDGE CONDITIONING (1) EW001402

*SLUDGE TREATMENT (2) EW000560 EW004091

*SNOW (1) EW002547

SODIUM ALUMINATE (1) EW004014

*SOFTENING (1) EW004094

SOFTENING (1) EW001075

*SOIL (1) EW001911

*SOIL ABSORPTION (1) EW002296

*SOILS (2) EW003986 EW004080

SOILS (4) EW000559 EW003979 EW003995 EW004071

SOIL SCIENCE (1) EW004034

*SOLIDS (2) EW000932 EW001137

*SOLID WASTES (5) EW001931 EW001933 EW001934 EW001960 EW002422

SOLID WASTES (3) EW001431 EW001928 EW002494

*SOLUBILITY (1) EW002124

*SOLUTIONS (1) EW002109

*SPECIFIC GRAVITY (1) EW002115

*SPECTROPHOTOMETERS (1) EW000850

*SPECTROPHOTOMETRY (1) EW001015

*SPECTROSCOPY (1) EW003939

*SPLINTS (3) EW002479 EW002480 EW002481

*SPRINKLERS (1) EW002496

STABILIZATION LAGOONS (1) EW000461

*STABILIZATION PONDS (2) EW002159 EW003995

STAFFING	(1)	EW004107						
*STANDARDS	(8)	EW000956	EW002094	EW002864	EW002937	EW003987	EW004061	EW004095
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STANDARDS	(6)	EW002252	EW004015	EW004020	EW004097	EW004098	EW004099	
START-UP	(1)	EW003970						
*STATISTICS	(1)	EW001944						
STATISTICS	(1)	EW004092						
*STEEL INDUSTRY	(1)	EW003992						
*STEEL PIPES	(1)	EW004081						
*STORM WATER	(1)	EW004092						
*STORMWATER RUNOFF	(1)	EW000595						
*STREAMS	(5)	EW000179	EW001927	EW001978	EW002160	EW002263		
*STRETCHERS	(1)	EW002484						
*STRUCTURAL ANALYSIS	(1)	EW003909						
*STUDY QUESTIONS	(1)	EW000461						
SUBTRACTION	(2)	EW002096	EW002516					
*SULFATES	(1)	EW004690						
*SULFURIC ACID	(1)	EW003932						
*SUPERVISION	(5)	EW000594	EW002332	EW002755	EW002864	EW002877		
SUPERVISION	(2)	EW001392	EW002542					
*SURFACE RUNOFF	(1)	EW000559						
*SURVEYS	(1)	EW004035						
SURVEYS	(1)	EW003990						
*SUSPENDED MATTER	(1)	EW002410						
SYMPOSIA	(1)	EW001918						
*SYRINGES	(1)	EW001353						
*SYSTEMS ANALYSIS	(2)	EW001933	EW002765					
SYSTEMS ANALYSIS	(1)	EW001934						
*SYSTEMS APPROACH	(1)	EW001941						
TASK ANALYSIS	(1)	EW001392						
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TASTE	(1)	EW001513						
*TAXONOMIC KEYS	(1)	EW002433						

*TAXONOMY (1) EW002433
*TAYLOR COMPARATOR KIT (1) EW002311

*TEACHER EDUCATION (2) EW002746 EW002747

*TEACHING GUIDES (2) EW003280 EW003281

*TECHNICAL EDUCATION (2) EW001246 EW002746

TECHNICAL EDUCATION (2) EW002747 EW002755

*TECHNICAL REPORTS (1) EW000596

*TECHNICAL WRITING (1) EW002756

*TECHNICIANS (1) EW004102

*TECHNOLOGY (9) EW001915 EW001929 EW002438 EW003971 EW003982 EW003985 EW004019
EW004032 EW004033

TECHNOLOGY (20) EW002025 EW002028 EW002167 EW002228 EW003909 EW003932 EW003941
EW003949 EW003991 EW004014 EW004016 EW004018 EW004022 EW004026 EW004034
EW004072 EW004074 EW004081 EW004083 EW004088

TECHNOLOGY RESEARCH (1) EW004090

*TEMPERATURE (3) EW002151 EW002290 EW002752

*TERTIARY TREATMENT (1) EW002031

TERTIARY TREATMENT (2) EW001401 EW001918

*TEST TUBES (1) EW000933

*TEXAS (1) EW004102

*TEXTILE INDUSTRY (1) EW004072

*THERMAL POLLUTION (1) EW000480

THERMAL POLLUTION (1) EW001445

*THERMODYNAMICS (1) EW002364

*THERMOMETERS (1) EW002151

*THERMOSTATIC CONTROLS (1) EW002290

TIME (1) EW004094

*TITRATION (5) EW001080 EW001143 EW001356 EW002125 EW002127

*TOOLS (7) EW001991 EW002314 EW002315 EW002316 EW002325 EW002328 EW002525

TOOLS (2) EW002317 EW002326

TOXICITY (1) EW002366

*TOXIC SUBSTANCES (6) EW000480 EW001028 EW001444 EW002422 EW003987 EW003993
TOXIC SUBSTANCES (2) EW001018 EW001445
TRACE METALS (1) EW001428
*TRAINING (1) EW003984
*TRANSPORTATION (2) EW002824 EW004099
*TRICKLING FILTERS (4) EW000590 EW003943 EW004022 EW004042
TRICKLING FILTERS (1) EW000461
TRIGONOMETRY (2) EW002748 EW002753
*TROUBLESHOOTING (2) EW002322 EW002462
*TUNE UPS (1) EW002524

*TUNNELING (1) EW000936
*TURBIDITY (1) EW004083
TURBIDITY (2) EW001078 EW001513
*TWENTY YEAR FLOODS (1) EW004092
*ULTRAFILTRATION (1) EW003941
*UNITED STATES (1) EW001678
UNITED STATES (1) EW002770
UNIVERSITIES (1) EW001246
*URBAN AREAS (4) EW000596 EW001799 EW002045 EW002432

URBAN AREAS (1) EW002713
USER CHARACTERISTICS (1) EW004035
*USER CHARGES (1) EW003988
*UTILITIES (18) EW000563 EW001656 EW003207 EW003935 EW003936 EW003981 EW003988
EW004019 EW004026 EW004028 EW004035 EW004040 EW004081 EW004084 EW004085
EW004086 EW004087 EW004102

UTILITIES (23) EW000594 EW001241 EW003557 EW003970 EW003971 EW003989 EW003990
EW003991 EW004010 EW004011 EW004012 EW004013 EW004015 EW004016 EW004017
EW004025 EW004027 EW004080 EW004082 EW004083 EW004088 EW004100 EW004103

*UTILITY TUNNELS (1) EW000596
*VACATION COMMUNITIES (1) EW004067
*VACUUM FILTRATION (1) EW001133
*VACUUM SEWERS (1) EW003992

*VALVES (8) EW000503 EW002287 EW002288 EW002289 EW002290 EW004013 EW004097
EW004098

*VAPORS (1) EW000934

*VIDEOCASSETTES (1) EW002181
*VIRGINIA (1) EW004082
*VIRUSES (3) EW001926 EW002031 EW003948
VIRUSES (1) EW003944
*VISUAL AIDS (3) EW001075 EW001513 EW002543
VISUAL AIDS (5) EW000850 EW001076 EW001077 EW001080 EW002746
*VOCABULARY (1) EW000479
*VOCATIONAL EDUCATION (1) EW002747
*VOLUME (1) EW002113
*WASHINGTON (1) EW004083
*WASTE COLLECTION (1) EW001930
WASTE COLLECTION (1) EW004021

*WASTE DISPOSAL (41) EW000788 EW000881 EW001426 EW001428 EW001671 EW001813 EW001913
EW001915 EW001918 EW001929 EW001930 EW001934 EW001960 EW002161 EW002251
EW002363 EW002414 EW002446 EW002494 EW002937 EW003284 EW003932 EW003937
EW003940 EW003971 EW003985 EW003986 EW003991 EW003992 EW003993 EW003995
EW004015 EW004018 EW004021 EW004029 EW004032 EW004063 EW004065 EW004076
EW004076 EW004102

WASTE DISPOSAL (14) EW001404 EW001431 EW002159 EW002770 EW003280 EW003281 EW003988
EW003994 EW004034 EW004066 EW004067 EW004068 EW004091 EW004107

WASTES (1) EW003279
*WASTEWATER (2) EW000875 EW000877
*WASTEWATER COLLECTION (7) EW000535 EW000572 EW000595 EW000788 EW001404 EW003981 EW003988
WASTEWATER SLUDGE (1) EW002249

*WASTEWATER TREATMENT (118) EW000448 EW000454 EW000461 EW000479 EW000503 EW000535 EW000536
EW000537 EW000560 EW000563 EW000571 EW000590 EW000592 EW000696 EW000697
EW000699 EW000788 EW000881 EW000895 EW000987 EW001011 EW001018 EW001240
EW001263 EW001319 EW001392 EW001400 EW001401 EW001402 EW001404 EW001426
EW001428 EW001432 EW001630 EW001670 EW001671 EW001672 EW001675 EW001787
EW001803 EW001913 EW001915 EW001928 EW001960 EW002026 EW002031 EW002159
EW002161 EW002164 EW002167 EW002228 EW002249 EW002253 EW002414 EW002434
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                                  EW004067  EW004068  EW004069  EW004070  EW004072  EW004073  EW004074  EW004075
                                  EW004076  EW004077  EW004079  EW004091  EW004100  EW004102  EW004107

*WASTEWATER TREATMENT             (4)       EW000703  EW001369  EW002718  EW003947

 WASTEWATER TREATMENT             (7)       EW000480  EW000572  EW001431  EW001918  EW001942  EW003204  EW004010

 WASTEWATER TREATMENT             (1)       EW001037

 WASTEWATER TREATMENT COSTS       (1)       EW003990

*WATER                            (3)       EW000875  EW000877  EW001910

*WATER ALLOCATION                 (1)       EW002432

*WATER ANALYSIS                   (17)      EW001075  EW001076  EW001077  EW001078  EW001079  EW001080  EW001239
                                  EW001240  EW001320  EW001512  EW001513  EW002252  EW002309  EW002310  EW002311
                                  EW002392  EW003939

 WATER ANALYSIS                   (1)       EW002073

*WATER DEMAND                     (1)       EW002770

*WATER DISTRIBUTION               (4)       EW001019  EW001940  EW004080  EW004093

 WATER DISTRIBUTION               (2)       EW000499  EW004040

*WATER METERS                     (3)       EW000774  EW002178  EW002459

*WATER PIPES                      (1)       EW002094

*WATER PLANNING                   (1)       EW001031

*WATER POLLUTION                  (2)       EW001756  EW002181


*WATER POLLUTION CONTROL          (74)      EW000169  EW000170  EW000173  EW000177  EW000183  EW000184  EW000479
                                  EW000480  EW000563  EW000595  EW000699  EW000845  EW000863  EW000895  EW000955
                                  EW001015  EW001037  EW001082  EW001107  EW001427  EW001429  EW001431  EW001442
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                                  EW004071  EW004091  EW004104

*WATER POLLUTION CONTROL          (4)       EW000568  EW001428  EW001799  EW002574

 WATER POLLUTION CONTROL          (42)      EW000454  EW000481  EW001007  EW001445  EW002276  EW002392  EW003183
                                  EW003184  EW003204  EW003205  EW003557  EW003944  EW003945  EW003946  EW003949
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                                  EW004100  EW004102  EW004107


*WATER QUALITY                    (52)      EW000169  EW000177  EW000179  EW000183  EW000184  EW000479  EW000480
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                           EW001912  EW001926  EW001942  EW002073  EW002161  EW002162  EW002177  EW002252
                           EW002340  EW002392  EW002412  EW002546  EW002548  EW002612  EW002713  EW002768
                           EW003183  EW003184  EW003939  EW003941  EW003944  EW003945  EW003946  EW003949
                           EW004030  EW004077  EW004083  EW004086  EW004103

 WATER QUALITY             (15)      EW000170  EW001076  EW001269  EW001513  EW001908  EW001931  EW002159
                           EW002250  EW002539  EW002540  EW003185  EW004016  EW004018  EW004040  EW004094


*WATER QUALTIY             (1)       EW000775

 WATER QUALTIY             (1)       EW002443

*WATER RATES               (1)       EW001268

 WATER RATES               (1)       EW004035


*WATER RESOURCES           (40)      EW000497  EW000559  EW000774  EW000775  EW000875  EW001007  EW001028
                           EW001431  EW001436  EW001440  EW001670  EW001926  EW001943  EW002159  EW002160
                           EW002162  EW002163  EW002166  EW002263  EW002340  EW002353  EW002393  EW002395
                           EW002432  EW002545  EW002547  EW002649  EW002713  EW002763  EW002764  EW002768
                           EW002770  EW003180  EW003204  EW003205  EW003207  EW003278  EW004026  EW004034
                           EW004093

 WATER RESOURCES           (13)      EW001630  EW001676  EW001678  EW001930  EW001941  EW001942  EW002033
                           EW002459  EW003279  EW003280  EW003281  EW004029  EW004083

*WATER REUSE               (1)       EW001011

 WATER REUSE               (1)       EW001670

*WATER RIGHTS              (1)       EW002162

*WATER RUNOFF              (1)       EW001799

*WATERSHEDS                (4)       EW001694  EW001927  EW002160  EW002713

 WATERSHEDS                (1)       EW004071

*WATER STORAGE             (1)       EW000559


*WATER SUPPLY              (28)      EW000495  EW000497  EW000501  EW000559  EW000774  EW001028  EW001037
                           EW001082  EW001269  EW001440  EW001673  EW002178  EW002546  EW002770  EW003207
                           EW004010  EW004011  EW004013  EW004016  EW004025  EW004034  EW004040  EW004078
                           EW004081  EW004082  EW004083  EW004087  EW004103

 WATER SUPPLY              (4)       EW001672  EW002094  EW004035  EW004080

*WATER TREATMENT           (56)      EW000479  EW000495  EW000498  EW000499  EW000503  EW000504  EW000696
                           EW000697  EW000735  EW000895  EW001009  EW001010  EW001011  EW001018  EW001019
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                           EW001672  EW001673  EW001675  EW001787  EW002031  EW002070  EW003180  EW003183
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	EW004094						
WATER TREATMENT	(6)	EW001241	EW001431	EW001931	EW001940	EW003204	EW004041
WATER USE	(1)	EW002770					
*WATER WELLS	(6)	EW000464	EW001266	EW001269	EW002353	EW002459	EW002548
*WEEDS	(1)	EW001978					
*WEIGHING	(1)	EW001147					
*WELDING	(1)	EW002557					
*WEST VIRGINIA	(1)	EW003557					
*WET MOUNTS	(1)	EW001357					
WILDLIFE	(1)	EW002937					
*WILDLIFE MANAGEMENT	(2)	EW000580	EW001442				
*WORK ENVIRONMENT	(2)	EW002503	EW002864				
*WORKER ATTITUDE	(2)	EW002501	EW002504				
*WORLD PROBLEMS	(3)	EW001445	EW002276	EW002763			
*WRITING	(1)	EW002756					
*ZOOLOGY	(1)	EW002366					
ZOOLOGY	(1)	EW002363					